SEGA.M®

ELECTRICAL PRODUCTS

NEW VERSION 2024

COMPANY PROFILE

SIVACON Technology Partner SIEMENS

SIMOPRIME Technology Partner SIEMENS



INDEX

A.01 About SEGA-M
A.02-03 SEGA-M Factories
A.03,04 SEGA-M Labs
A.05 SEGA-M Products

B.01 SEGA-M Load Center MFB -Type Tested
B.02 SEGA-M Distribution Board -Type Tested (NSFB)
B.03-18 Low voltage - Switchboard -Type Tested-up to 6,300 A (SIVACON-S8)

C.01-08 Medium Voltage -Switchgear, up to 17.5 kV Type (SIMOPRIME)
C.08-16 Medium Voltage -AIS SWGR, up to 24 kV Type (SIMOPRIME)

D.01 SEGA-M Design & Test SWITCHGEAR
D.02 Steel Products SGWM-1 Metal Enclosures
D.03 Network Enclosure - Modular Enclosures
D.04-08 Panel Meter - Distribution Box
D.09 Modular Enclosure Socket Outlets
D.09 Metal Enclosure IP54 up to IP65
D.10 Control Desk - Metal Junction
D.11 Distribution Box - Cable Gland IP65 up to IP67
D.12 Industrial Plugs & Sockets - Plastic Junction Box
D.13 Tube Holder - Circuit Breaker Box
D.14 Wiring Device Piano Products
D.15 Network Panel - Type (ONT) *New Product*

E.01 Solar Energy Products
E.02 Solar Energy Management
E.03 Solar Application Photo
E.05-06 Specs For Solar Capacity Of 40 KW Connected To The Network
E.06-12 Solar Installation Tools - Simulation Parameters For Grid Connection Sys

F.01-22 SEGA-M Project Reference Short List For Low Voltage

G.01-31 SEGA-M Accreditation

NEW VERSION 2024

A
B
C
D
E
F
G

- Sega-m is an advanced engineering company for electrical products and low voltage switchboards established by experiences of its founders that exceeds 40 years in industry field

- Our factories are found in the industrial area of the 10th of Ramadan City Egypt It's located on an area 30.000m

- **Sega-m factories are equipped with the latest production lines, from the large manufactures in Europe**

- Fully equipped factory with the latest machines for making moulds with an Engineering team working in development of the products, and giving new creative solution

Our Mission

- Is to provide the market with High quality Products, that serve the electrical installations sector, with all its installations requirements, that fulfill all our customers' needs

Our Vision

- Serving the society and our beloved country through raising the standards of business and customer satisfaction.Saving the planet and cutting carbon emissions by providing energy efficient solutions in both production and distribution of electric power

- Sega-m factories are equipped with the latest production lines, from largest manufactures in Europe, specially built for this industry Computerized Punching, bending, cutting machine

- Welding robots.
- Large plastics injection machines.
- Electro static powder coating equipped with the latest curing line
- Robot powdering.
- Laser Cutting Machine
- Sanding Machine
- Die Casting Machine



CNC Milling Machines



Punching



Ermaksan bending



Roll Forming Machine



Plastic Injection



Welding Robot



Powder Coating



Gasket Robot



Routine Test

SEGA.M Factories



SANDING MACHINE



DIE CASTING MACHINE



LASER CUTTING MACHINE

SEGA-M Labs



IP- FLUIDS



IP - DUST CHAMBER



SALT SPRAY

SEGA-M Labs

LIGHT TESTING - GONIOPHOTOMETER / SPECTROMETER



SEGA.M Products

*We have a great range of products which cover all the customer needs Some Of Our Products in Low Voltage Switch boards are.

- Power Distribution Switchboards, (Main & Branches Panels)
- Motor Control Center "MCC" Switchboards
- Power Factor Correction "PFC" Panels
- Automatic transfer Switch "ATS", 2 out of 3 Switchboards & 3 out of 5
- Fuses Panel (Pillar Panel & Coffret Boxes)
- Now a new range of products are designed to meet our customer's need

*Routine Test is carried out for all Low Voltage Switchboards .

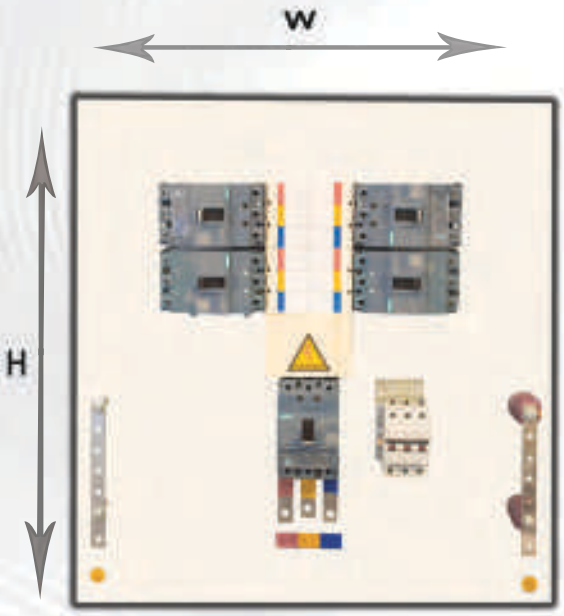
*Beside Low Voltage Switchboards we have great range of empty boxes and Enclosures which Cover all our customer needs such as Metal Products
Control Desk IP54 Distribution Box , Electrical panel , meter Enclosures up to IP65, Load Center Enclosures , Network Enclosures and metal junction box.

*Some of Plastic electrical products Such as
Plastic Cable gland , plastic junction box up to IP67 , wiring device, Tube Holder
Recesed and Surface mounted plastic junction box IP65 socket with
Shocko 16 A , 250v and plastic distribution panels .

*Solar system stand alone on grid and off grid .

MCCB DISTRIBUTION BOARD

- Incoming 3VA23-3VM13-400A, Outgoing 3VA1-3VM1 16-160A
- Incoming 3VA22-3VM12-250A, Outgoing 3VA1-3VM1 16-160A



Perfect Design
Very Good Quality
Total Safety
Time Saving

Art No.	Incoming Rate	Outgoing Feeders	H / W / D
MFB-4400160	400 A	4	900 / 700 / 250
MFB-6400160	400 A	6	1000 / 700 / 250
MFB-8400160	400 A	8	1100 / 700 / 250
MFB-10400160	400 A	10	1200 / 700 / 250
MFB-4250160	250 A	4	800 / 700 / 250
MFB-6250160	250 A	6	800 / 700 / 250
MFB-8250160	250 A	8	900 / 700 / 250
MFB-10250160	250 A	10	1000 / 700 / 250

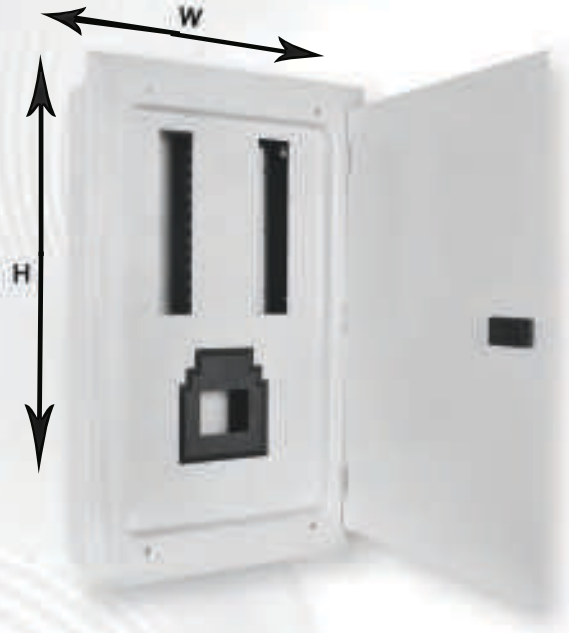
Performance

Busbar rating	400 A
Busbar short circuit capacity	36 KA /per 1sec
Rated voltage	380-415 V
Earth + Neutral out terminal capacity	35 MM^2
Earth + Neutral incoming cable capacity	70 MM^2
No of outgoing MCCB	4- 6- 8- 10
Degree of protection	Up to 65
Enclosure colour	RAL 7035 or RAL 7032 as Request

Sega-M Distribution Board - Type Tested (NSFB)

- MCB DISTRIBUTION BOARD FISHBONE

- Incoming Miniture 3P, Outgoing Miniture
- Incoming 3VM-3VA-100A , Outgoing Miniture
- Incoming 3VM-3VA-160A , Outgoing Miniture



- Perfect Design
- Very Good Quality
- Total Safety
- Time Saving

Art No	Outgoings	H	W	D
Incoming Miniture 3P Outgoing Miniture				
MSFB-MCB-12R	12	595	400	115
MSFB-MCB-18R	18	595	400	115
MSFB-MCB-24 R	24	595	400	115
Incoming FD-100A Outgoing Miniture				
MSFB-MCCB-12R	12	595	400	115
MSFB-MCCB-18R	18	595	400	115
MSFB-MCCB-24R	24	595	400	115
Incoming FD-160A Outgoing Miniture				
MSFB-MCCB-30R	30	755	400	115
MSFB-MCCB-36R	36	755	400	115

Performance

Busbar rating	160 A
Busbar short circuit capacity	16 KA 1sec
Rated voltage	180-415 V
Earth + Neutral out terminal capacity	10- 16 mm²
Earth + Neutral incoming cable capacity	25 mm²
No of outgoing MCCB	12-18- 24- 30- 36-48- 60
Degree of protection	up to 42
Enclosure color	RAL 7035 or RAL 7032 as per Request

The interaction of the components described below results in an optimal low-voltage switchboard with advantages as regards Safety - integrated Safety - integrated results in an optimal low-voltage switchboard ted Economic efficiency - right from the start.



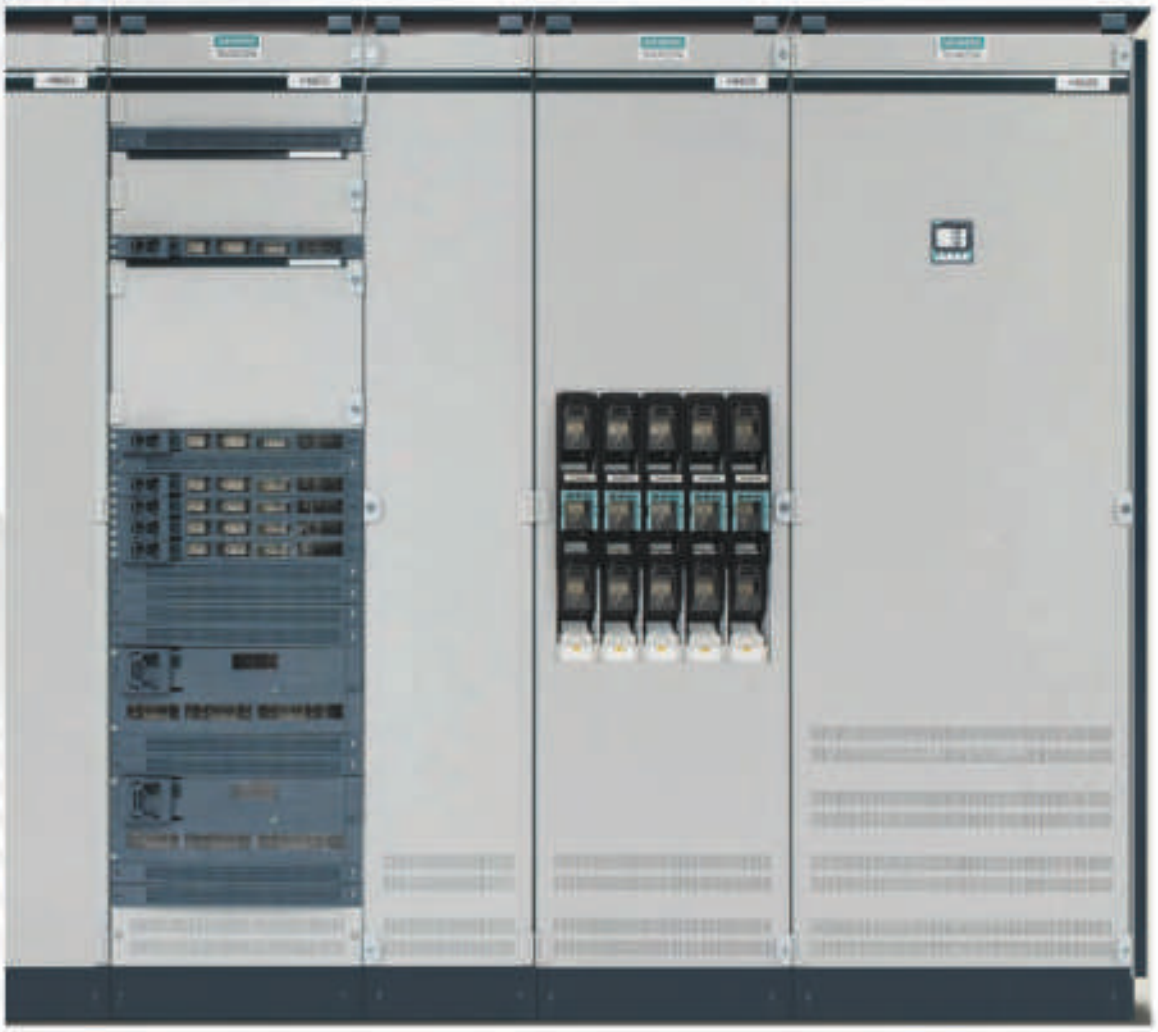
Safe, flexible and cost-efficient
power distribution
SIVACON S8 low-voltage switchboard



System overview (Cubicle Design)



	Circuit-breaker design	Universal mounting design	Fixed-mounted design
Mounting design	• Fixed-mounted design • Withdrawable design	• Withdrawable design • Fixed-mounted design with compartment doors • Plug-in design	• Fixed-mounted design with front covers
Functions	• Incoming feeder • Outgoing feeder • Bus coupler	• Cable feeders • Motor feeders (MCC)	• Cable feeders
Rated values	• Up to 6,300 A	• Up to 630 A • Up to 250 kW	• Up to 630 A
Type of connection	Front or rear	Front or rear	Front
Cubicle width (mm)	400, 600, 800, 1,000, 1,400	600, 1,000, 1,200	1,000, 1,200
Internal separation	Form 1, 2b, 3a, 4b, 4 type 7 (BS)	Form 3b, 4a, 4b, 4 type 7 (BS)	Form 1, 2b, 3b, 4a, 4b
Busbar position	Top, rear	Top, rear	Top, rear



In-line design, plug-in	In-line design, fixed-mounted	Reactive power compensation
• Plug-in design	• Fixed-mounted design	• Fixed-mounted design
• Cable feeders	• Cable feeders	• Central compensation of reactive power
• Up to 630 A	• Up to 630 A	• Unchoked up to 600 kvar • Choked up to 500 kvar
Front	Front	Front
1,000, 1,200	600, 800, 1,000	800
Form 3b, 4b	Form 1, 2b	Form 1, 2b
Top, rear	Rear	Without, top, rear



Flexible framework for high stability.
Corrosion protection and safe earthing.



Variable busbar positions (rear or top)



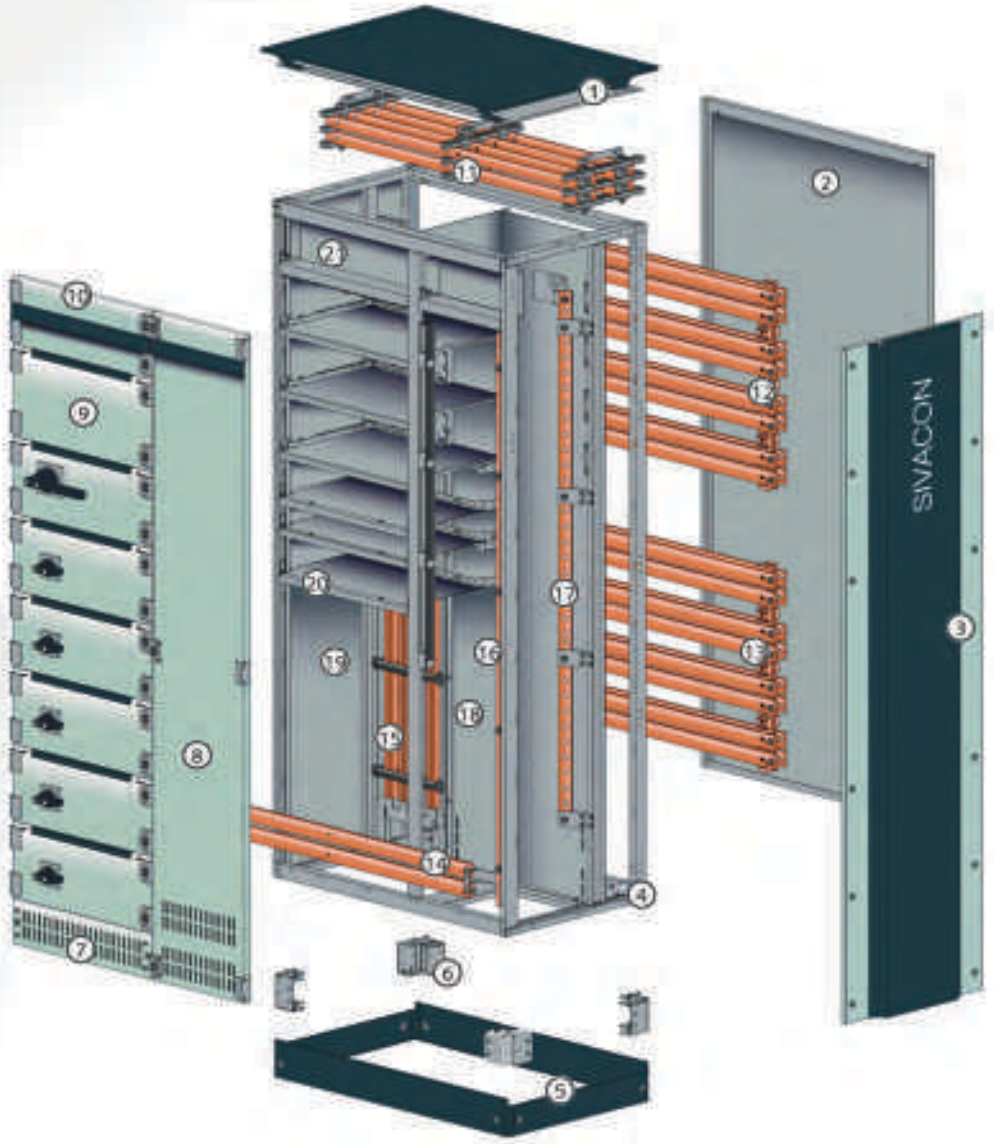
Your benefit

- Personal safety thanks to the patented door locking system
- Arrangement of busbar positions suitable for the application
- High level of flexibility thanks to variable busbar systems

The SIVACON S8 switchboard offers a perfect combination of a cost-efficient structure and high quality. The target is clear: a perfect equipment for all of your demands – versatile, safe, user-friendly, and easy to operate. The intelligent design of SIVACON S8 is our answer to these requirements.

Technical data	
Frame	
Door opening angle	125°, 180° with stand-alone installation
Frame height (without base)	2,000, 2,200 mm
Base height (optional)	100, 200 mm
Degree of protection	In accordance with IEC 60529: IP30, IP31, IP40, IP41, IP43, IP54
Main busbars	
Rated currents	Up to 7,000 A
Rated peak withstand current (I_{pk})	Up to 330 kA
Rated short-time withstand current (I_{cw})	Up to 150 kA

Standards and approvals		
Standards and regulations	Power switchgear and controlgear assembly (design verification)	IEC 61439-2 DIN EN 61439-2-2 VDE 0660-600-2
	Test of internal fault behaviour (internal arc)	IEC/TR 61641 DIN EN 60439-1 Supplement 2 VDE 0660-500 Supplement 2
	Induced vibrations	IEC 60068-3-3 IEC 60068-2-6 IEC 60068-2-57 IEC 60980 KTA 2201.4 Uniform Building Code (UBC), Edition 1997 Vol. 2, Ch. 19, Div. IV
	Protection against electric shock	EN 50274 (VDE 0660-514)
Approvals	Europe Russia, Belarus, Kasakhstan China	CE marking and EC Declaration of Conformity EAC CCC
	Det Norske Veritas Lloyds Register of Shipping	DNV GL Type Approval Certificate LR Type Approval Certificate
	Shell conformity	"DEP Shell"
Technical data		
Installation conditions	Indoor installation, ambient temperature in the 24-h mean	+ 35 °C (-5 °C to + 40 °C)
Rated operating voltage (U_e)	Main circuit	Up to 690 V (rated frequency f_n 50 Hz)
Dimensioning of creepage distances and clearances	Rated impulse withstand voltage U_{imp}	8 kV
	Rated insulation voltage (U_i)	1,000 V
	Degree of pollution	3
Main busbars, horizontal	Rated current	Up to 7,010 A
	Rated peak withstand current (I_{pk})	Up to 330 kA
	Rated short-time withstand current (I_{cw})	Up to 150 kA, 1s
Rated device currents	Circuit-breakers	Up to 6,300 A
	Cable feeders	Up to 630 A
	Motor feeders	Up to 630 A
Internal separation	IEC 61439-2	Form 1 to form 4
	BS EN 61439-2	Up to form 4 type 7
IP degree of protection	in accordance with IEC 60529	Ventilated up to IP43 Non-ventilated IP54
Mechanical strength	IEC 62262	Up to IK10
Dimensions	Height (without base)	2,000, 2,200 mm
	Height of base (optional)	100, 200 mm
	Cubicle width	200, 350, 400, 600, 800, 850, 1,000, 1,200, 1,400 mm
	Depth (single-front)	500, 600, 800, 1,000, 1,200 mm



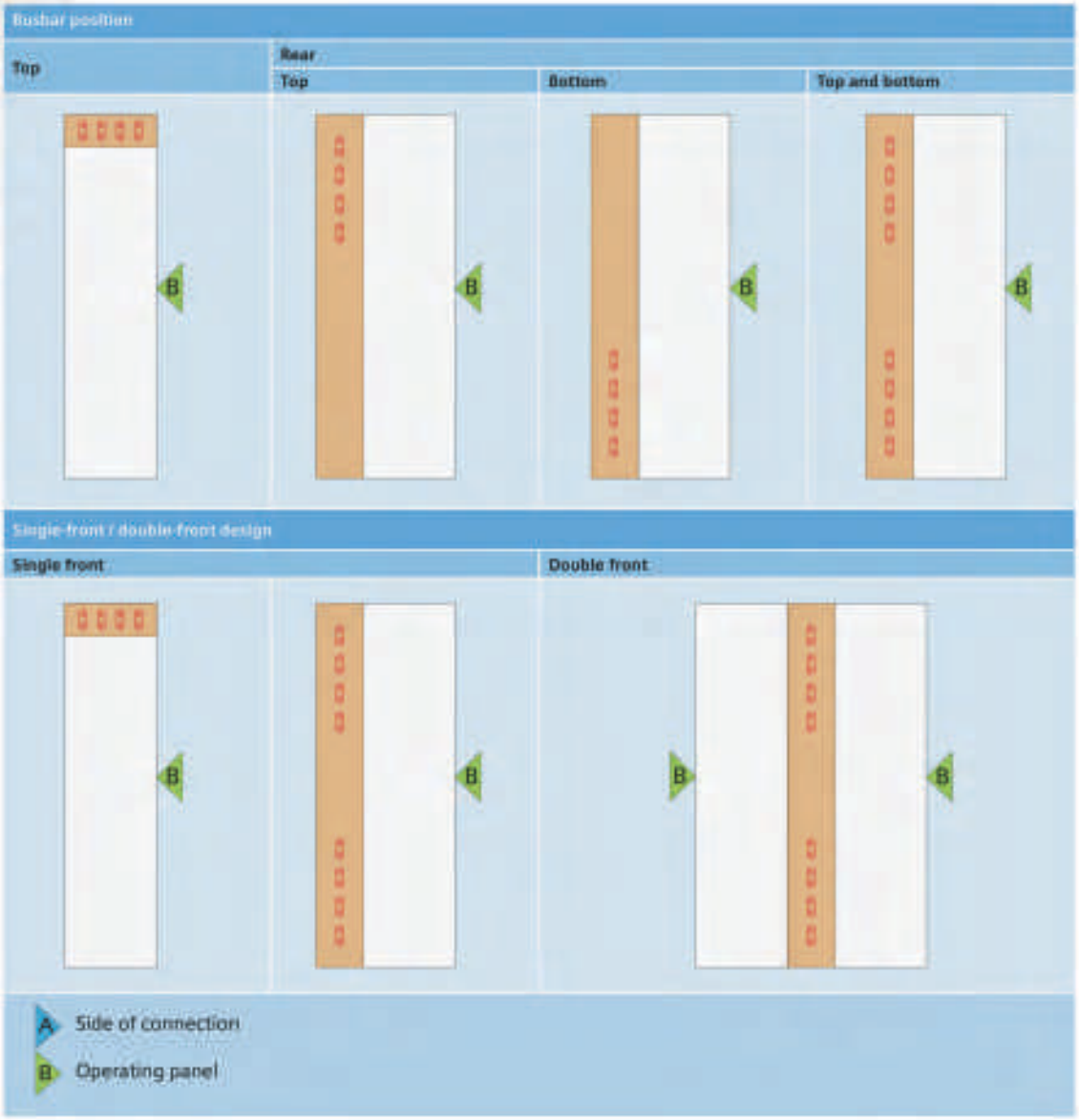
Enclosure
1. Roof plate
2. Rear panel
3. Design side panel
4. Frame
5. Base cover
6. Base
7. Ventilated base compartment cover
8. Ventilated cubicle door
9. Compartment door
10. Head room door

Busbars
11. Main busbar (L1..., L3, N) – top
12. Main busbar (L1..., L3, N) – rear top
13. Main busbar (L1..., L3, N) – rear bottom
14. Main busbar (PE) – bottom
15. Vertical distribution busbar system (L1..., L3, N) device compartment
16. Vertical distribution busbar (PE) cable connection compartment
17. Vertical distribution busbar (N) cable connection compartment

Internal separation
18. Device compartment/busbar compartment
19. Cubicle-to-cubicle
20. Compartment to compartment
21. Cross-wiring compartment

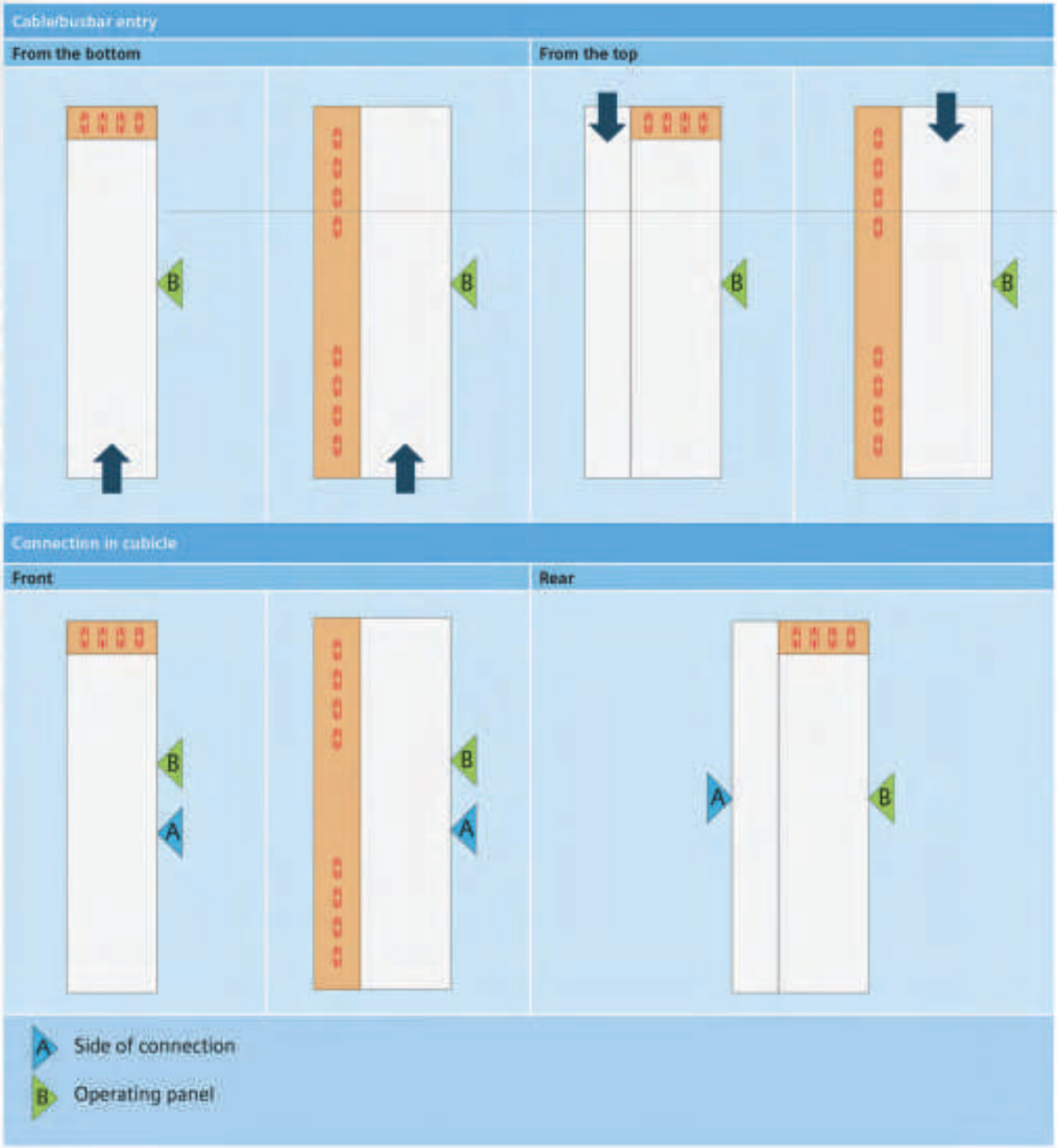
When the system configuration is planned, the following charact
eristics must be specified
Busbar position (top, rear top, rear bottom)
or both rear top and rear bottom
Single-front or double-front design
Cable/busbar entry (from the top or bottom)
Connection in cubicle (front or rear)

Schematic Overview of Switchboard Conagurations

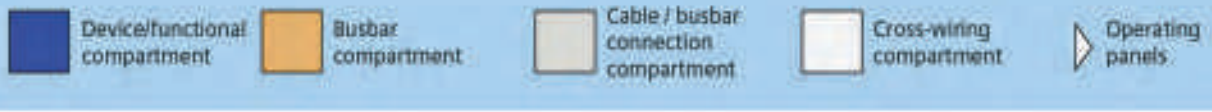


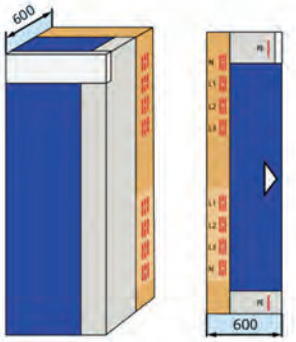
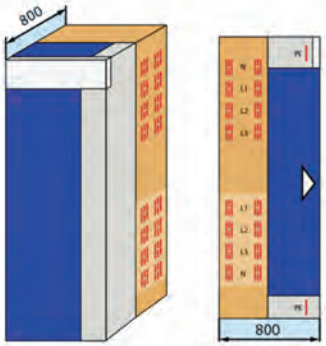
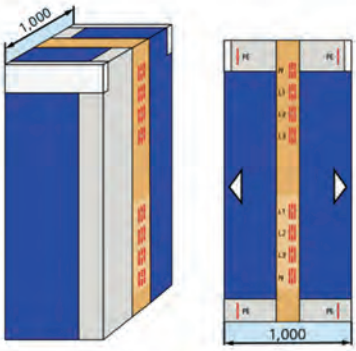
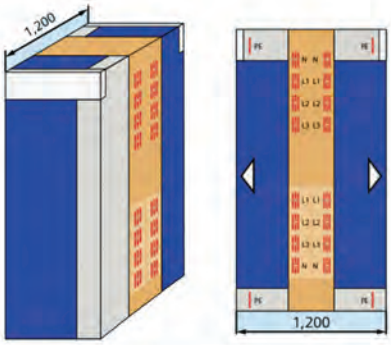
Schematic Overview of Switchboard Conagurations

These characteristics depend on the type of installation among other things
Stand-alone At the wall (only for single-front design)
Back to back (only for single-front design)
These determinations allow to specify cubicle design in
more detail
(Fig. 2/1, Tab. 2/2 and Tab. 2/3)
Further infor-mation about the switchboard
installation can be found in Chapter 8 “Further planning notes



Top busbar position		
Busbar system		**Cubicle design**
Busbar position	Top	 
Rated current	Up to 3,270 A	
Cable/busbar entry	Bottom	
Connection in cubicle	Front	
Busbar position	Top	 
Rated current	Up to 3,270 A	
Cable/busbar entry	Top	
Connection in cubicle	Front or rear	
Busbar position	Top	 
Rated current	Up to 6,300 A	
Cable/busbar entry	Bottom	
Connection in cubicle	Front	
Busbar position	Top	 
Rated current	Up to 6,300 A	
Cable/busbar entry	Top	
Connection in cubicle	Front or rear	



Rear busbar position		
Busbar system		**Cubicle design**
Busbar position	Rear Top or bottom Top and bottom	
Rated current	Up to 4,000 A	
Cable/busbar entry	Bottom or top	
Connection in cubicle	Front	
Busbar position	Rear Top or bottom	
Rated current	Up to 7,010 A	
Cable/busbar entry	Bottom or top	
Connection in cubicle	Front	
Busbar position	Rear Top or bottom Top and bottom	
Rated current	Up to 6,300 A	
Cable/busbar entry	Bottom or top	
Connection in cubicle	Front	
Busbar position	Rear Top or bottom	
Rated current	Up to 7,010 A	
Cable/busbar entry	Bottom, top	
Connection in cubicle	Front	

Device/functional compartment
Busbar compartment
Cable / busbar connection compartment
Cross-wiring compartment
Operating panels

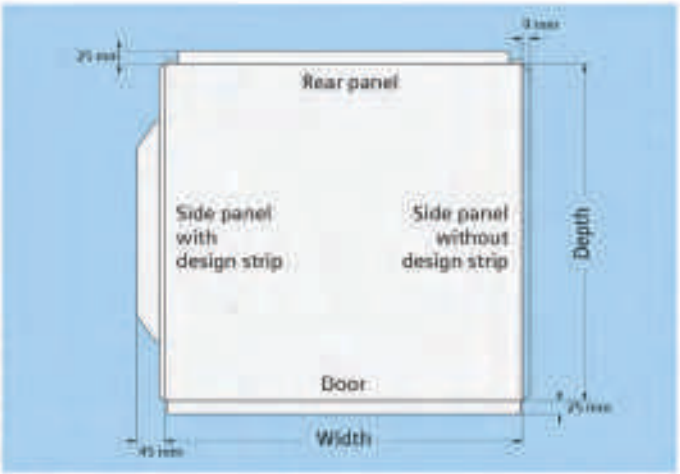
Cubicle Types and Busbar Arrangement

Cubicle height					
Frame	2,000, 2,200 mm				
Base	Without, 100, 200 mm				
Cubicle width					
Dependent of:	- Cubicle type - Rated device current - Connecting position and/or cable/busbar entry				
Cubicle depth					
Type	Main busbar		Cubicle depth		
	Location	Rated current	Front connection		Rear connection
			Entry from the bottom	Entry from the top	
Single front	Top	3,270 A	500, 800 mm	800 mm	800 mm
		6,300 A [1]	800, 1,000 mm	1,200 mm	1,200 mm
	Rear	4,000 A	600 mm	600 mm	-
		7,010 A	800 mm	800 mm	-
Double front	Rear	4,000 A	1,000 mm	1,000 mm	-
		7,010 A [1]	1,200 mm	1,200 mm	-

[1] Frame height 2,200 mm

The cubicle dimensions listed in Tab. 2/4 do not factor in the enclosure parts and no outer built-on parts For the dimensions of the cubicles' enclosure parts, please refer to Fig. 2/2. For degrees of protection IPX1 and IPX3, additional ventilation roof panels are mounted on the cubicle The dimensions of the enclosure parts are within the required minimum clearances for erecting the switchboard. Doors can be fitted so that they close in escape direction

Surface Treatment



Surface treatment	
Frame components	Sendzimir-galvanised
Enclosure	Sendzimir-galvanised / powder-coated
Doors	Powder-coated
Copper bars	Bare copper, optionally silver-plated, optionally tin-plated
Colour	
Powder-coated components (layer thickness 100 ± 25 µm)	RAL7035, light grey (in accordance with DIN 43656) or upon request
Design components	Blue Green Basic

Standards and approvals		
Standards and prescriptions	Power switchgear and controlgear assembly (design verification)	IEC 61439-2
	Testing under conditions of arcing due to internal fault	IEC/TR 61641
	Induced vibrations	IEC 60068-3-3 IEC 60068-2-6 IEC 60068-2-57 IEC 60980 KTA 2201.4 Uniform Building Code (UBC), Edition 1997 Vol. 2, Ch. 19, Div. IV
	Protection against electric shock	EN 50274
Approvals and certifications	Europe Russia, Belarus, Kazakhstan China	CE Marking and EC Declaration of Conformity EAC (Eurasian Conformity) CCC
	Det Norske Veritas Lloyds Register of Shipping	DNV GL Type Approval Certificate LR Type Approval Certificate
	Shell Conformity	"DEP Shell"

Technical data		
Rated operational voltage (U_e)	Main circuit	Up to 690 V (rated frequency f_n 50 Hz)
Clearances and creepage distances	Rated impulse withstand voltage (U_{imp})	8 kV
	Rated insulation voltage (U_i)	1,000 V
	Degree of pollution	3
Main busbars, horizontal	Rated current	Up to 7,010 A
	Rated peak withstand current (I_{pk})	Up to 330 kA
	Rated short-time withstand current (I_{cw})	Up to 150 kA, 1 s
Rated currents of devices	Circuit breakers	Up to 6,300 A
	Cable feeders	Up to 630 A
	Motor feeders	Up to 250 kW
Internal separation	IEC 61439-2	Form 1 to form 4
	BS EN 61439-2	Up to form 4 type 7
IP degree of protection	In accordance with IEC 60529	Ventilated up to IP43 Non-ventilated IP54
Mechanical strength	IEC 62262	Up to IK10
Dimensions	Height (without base)	2,000, 2,200 mm
	Height of base (optional)	100, 200 mm
	Cubicle width	200, 350, 400, 600, 800, 850, 1,000, 1,200, 1,400 mm
	Depth (single front)	500, 600, 800, 1,000, 1,200 mm
Installation conditions	Indoor installation, ambient air temperature in the 24-h mean	+ 35°C (-5°C to + 40°C)

Customer							
Author							
Project			Telephone				
Factory ref. no.			Fax				
Delivery date			Date				
Standards and prescriptions							
☑ IEC 61439-1/2 / EN 61439-1/2 VDE 0660 Part 600-1/2	IEC/TR 61641, arc resistance ☐ Level 1, personal safety ☐ Level 3, limitation to functional compartment			☐ Level 2, limitation to one cubicle ☐ Level 4, limitation to the place of origin			
	☐ Insulated main busbar		☐ Arc barrier		☐ Arc detection system		
Environmental conditions							
Operating conditions	☐ Standard (interior climate 3K4)		☐ Special		☐ Corrosive gases (e.g. H_2S)		
Ambient air temperature (24-h mean)	☐ 20 °C	☐ 25 °C	☐ 30 °C	☐ 35 °C	☐ 40 °C	☐ 45 °C	☐ 50 °C
Site altitude above sea level	☐ ≤ 2,000 m		☐ Others:			m	
Adverse operating conditions	☐ None		☐ Earthquake-proof		☐ Ship/Offshore		
	☐ Others:						
Layout and installation							
Type of installation	☐ Single-fronted		☐ Back-to-back		☐ Double-fronted		
Connection inside the cubicle	☐ Front		☐ Rear				
Restriction of total length	☐ Without		☐ Yes			mm	
Max. net length per transport unit	☐ 2,400 mm		☐ Others			mm	
Cable/busbar entry							
Incoming feeder cubicles	☐ From bottom		☐ From top				
Outgoing feeder cubicles	☐ From bottom		☐ From top				
Degree of protection							
Ventilated cubicle	☐ IP30	☐ IP31	☐ IP40	☐ IP41	☐ IP43		
Non-ventilated cubicle						☐ IP54	
Towards the cable floor	☐ IP00	☐ IP30	☐ IP40	☐ IP54			
	☐ At the factory		☐ At the building site				

Project						
Network data / infeed data						
Grid type	☐ TN-C	☐ TN-S	☐ TN-C-S	☐ IT	☐ TT	
Transformer rated power S_r	kVA		Rated impedance voltage U_z		%	
Rated operational voltage U_e	V		Frequency f		Hz	
Rated short-time withstand current I_{cw}	kA		Short-circuit withstand current I_k at DC		kA	
Design of external connection	☐ L1, L2, L3, PEN		☐ L1, L2, L3, PE + N ☐ ZEP (PEN + PE)		☐ Others:	
	☐ 3-pole switchable		☐ 4-pole switchable			
Horizontal busbar system						
Position	☐ Top		☐ Rear (top)		☐ Rear (bottom)	
Rated current I_n	A		A		A	
CU treatment	☐ Bright		☐ Silver-plated		☐ Tin-plated	
Design L1, L2, L3 + ...	☐ PEN	☐ PE	☐ N	☐ PEN, N = 50 %	☐ PEN, N = 100 %	
	☐ Others:					
Vertical busbar system / Distribution busbars						
CU treatment	☐ Bright	☐ Silver-plated	☐ Tin-plated			
Design L1, L2, L3 + ...	☐ PEN	☐ PE	☐ N	☐ PEN, N = 50 %	☐ PEN, N = 100 %	
Internal separation						
Circuit-breaker design	☐ Form 1	☐ Form 2b	☐ Form 3a		☐ Form 4b	☐ Form 4 type 7
Universal mounting design				☐ Form 3b	☐ Form 4a	☐ Form 4b	☐ Form 4 type 7
Fixed-mounted design	☐ Form 1	☐ Form 2b		☐ Form 3b	☐ Form 4a	☐ Form 4b	
In-line design, plug-in				☐ Form 3b		☐ Form 4b	
In-line design, fixed-mounted	☐ Form 1	☐ Form 2b					
Reactive power compensation	☐ Form 1	☐ Form 2b					
Notes						

- Saves Lives:
  - All switching operations including emergency manual operation switch high-voltage door closed.
  - Internal arc tested design up to 40 kA, 1 s, according to IEC 62271-200, VDE 0671-200.
- Peace Of Mind:
  - Design based on global best practice sharing and experience.
  - Type testing of the circuit-breaker inside the panel.
  - Factory-assembled, type-tested switchgear according to IEC 62271-200.
  - Use of maintenance-free vacuum circuit-breakers.
- Increases Productivity:
  - Use of metallic, earthed shutters and partitions between the compartments ensures highest loss of service continuity of the switchgear (LSC2B according to IEC 62271-200) during maintenance.
  - Use of maintenance-free vacuum circuit-breakers
- Saves Money:
  - Use of maintenance-free vacuum circuit-breakers.



- Application: Power supply system
  - Power supply companies
- Application: Industry
  - Power stations
  - Cement industry
  - Automobile industry
  - Iron and steel works
  - Rolling mills
  - Mining industry
  - Traction power supplies
  - Chemical industry
  - Petroleum industry
  - Pipeline installations
  - Offshore installations
  - Electrochemical plants
  - Petrochemical plants
  - Shipbuilding industry
  - Diesel power plants
  - Emergency power supply
  - installations
  - Lignite open-cast mines
  - Textile, paper and food industries

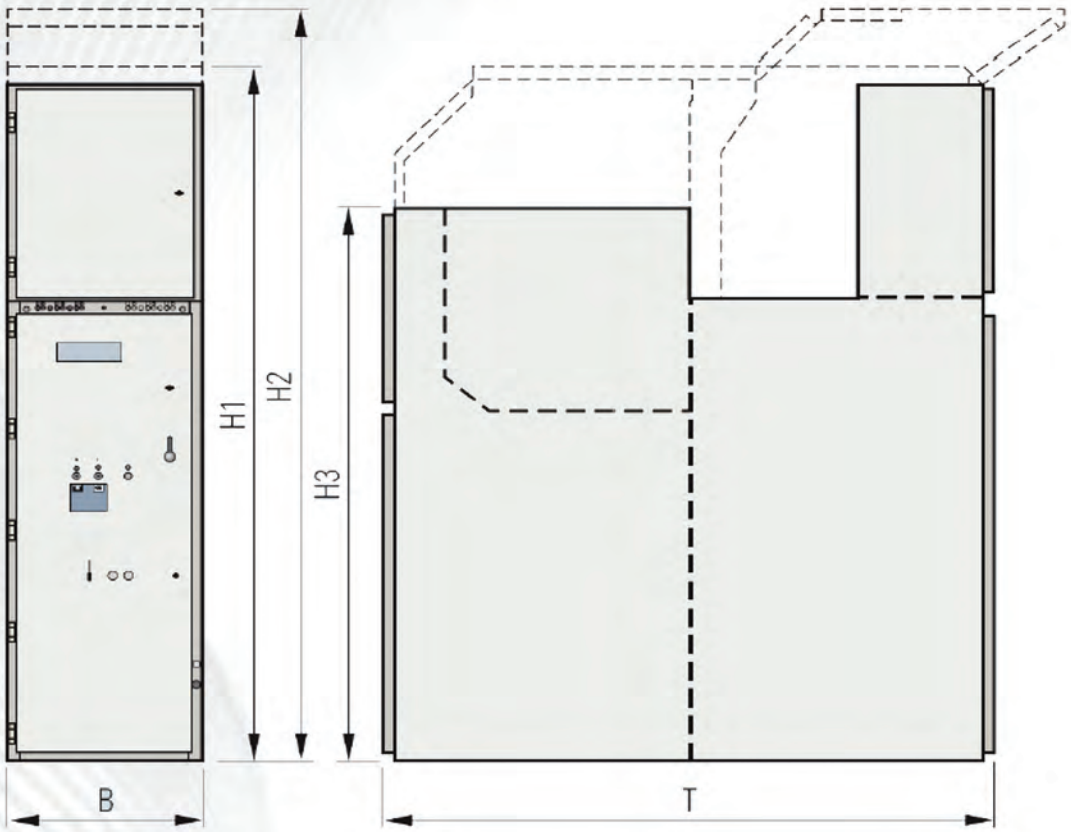


Electrical data (maximum values)

Switchgear 12 kV	
Rated voltage	12 kV
Rated frequency	50/60 Hz
Rated short-duration power-frequencywithstan voltage	28 kV 1)
Rated lightning impulse withstand voltage	75 kV
Rated short-time withstand current, 3 s	40 kA
Rated peak withstand current at 50/60 Hz	100/104 kA
Rated short-circuit breaking current	40 kA
Rated short-circuitmaking current at 50/60 Hz	100/104 kA
Rated normal current of busbar	3600 A
Rated normal current of feeders – with circuit-breaker – with vacuum contactor	 3600 A 400 A 2)

Dimensions	Panel type	Rating	mm
Width W	Circuit-breaker panel Disconnecting panel Bus sectionalizer/VCB panel	up to 31.5 kA < 1,250 A up to 31.5 kA 1,250 A, ... 3,600 A 40 kA	600 800 800
	Contactor panel	up to 40 kA & GOST 7,2kV GOST 12kV (up to 31,5kA)	435 600
	Bus sectionalizer/ bus riser panel	up to 31.5 kA ≤ 2,500 A up to 31.5 kA 3,150 A, ... 3,600 A 40 kA	600 800 800
	Metering panel	up to 31.5 kA 40 kA	600 800
Height H1	With standard low-voltage compartment and IAC 0.1 s		2,253
H2	With standard low-voltage compartment and IAC 1.0 s	up to 31.5 kA 40 kA	2,425 2,460
H3	Backside		1,780
Depth D	Standard		1,860

Dimensions

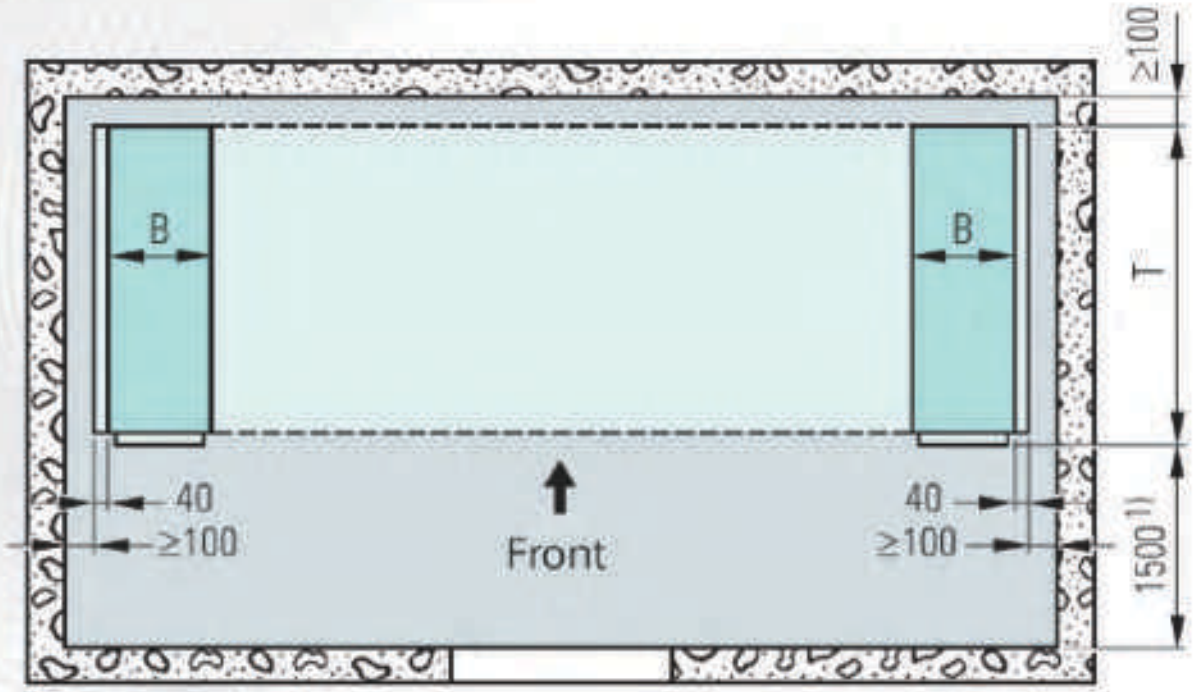


All panel types

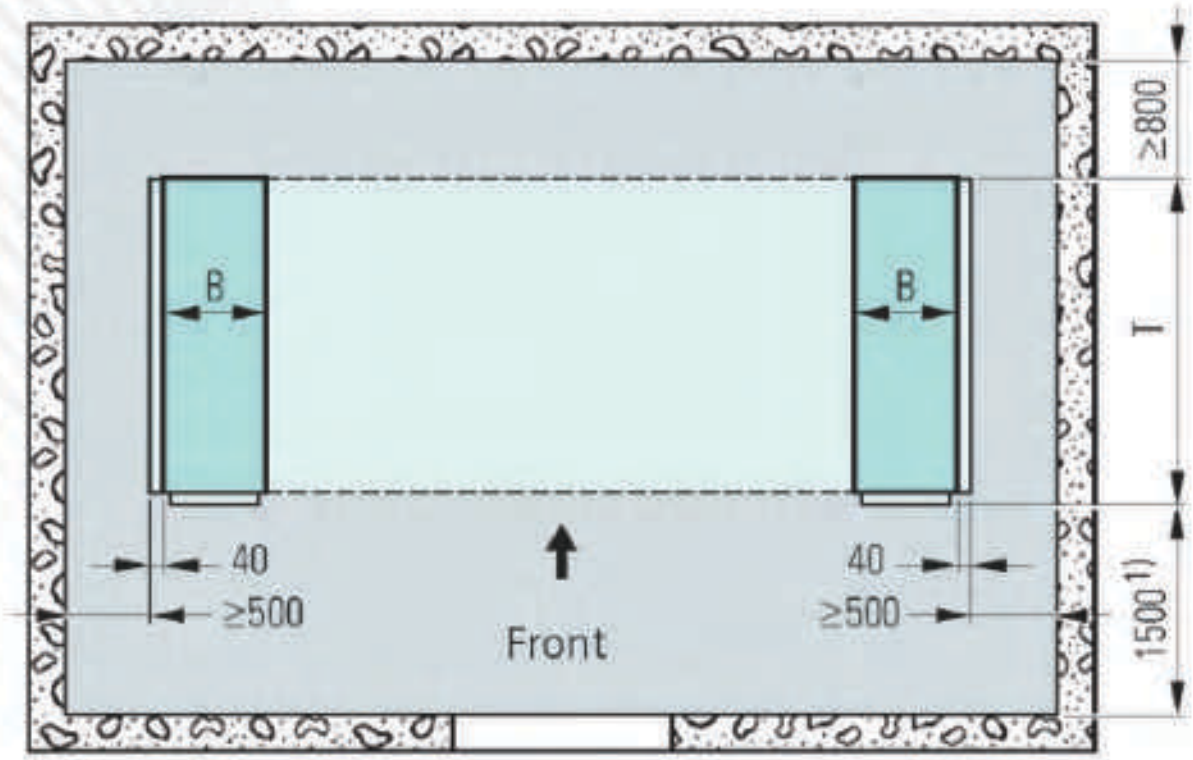
Dimensions in mm

Width	B		up to	
		Circuit-breaker panel	31.5 kA	40 kA
		≤1250 A	600	600
		2500 A, 3150 A, 3600 A	800	800
		Contactor panel	435 2)/600	435 2)
		Disconnecting panel		
		≤1250 A	600	800
		2500 A, 3150 A, 3600 A	800	800
		Bus sectionalizer/circuit breaker		
		panel ≤1250 A	600	800
		2500 A, 3150 A, 3600 A	800	800
		Bus sectionalizer/bus riser panel		
		≤2500 A	600	800
		3150 A, 3600 A	800	800
		Metering panel	600	800
Height	H1	With standard low-voltage compartment and IAC 0.1 s	2253	2253
	H2	With standard low-voltage compartment and IAC 1.0 s	2425	2460
	H3	–	1780	1780
Depth	T	Standard	1860	1860

Room planning (room height ≥ 2800 mm)
-Front connection

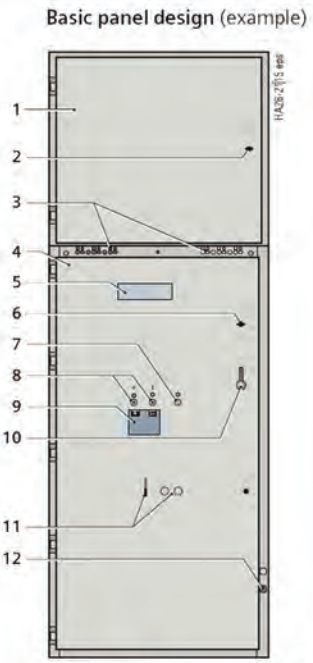


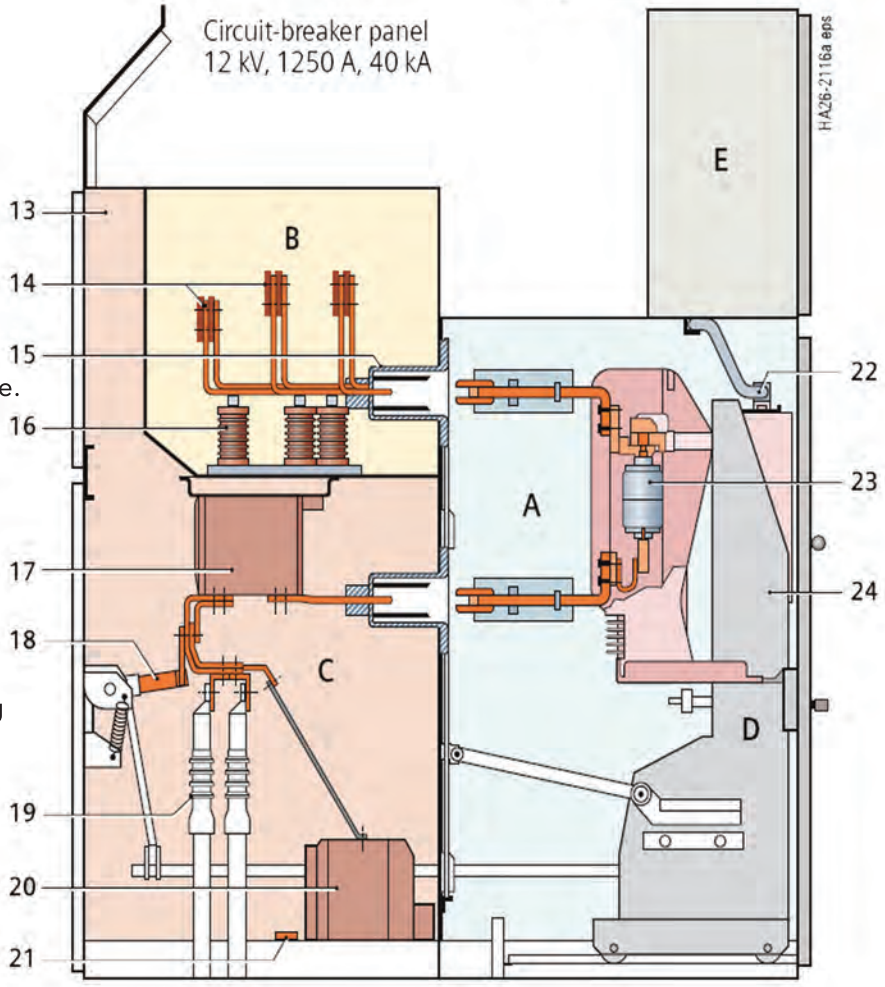
-Rear connection



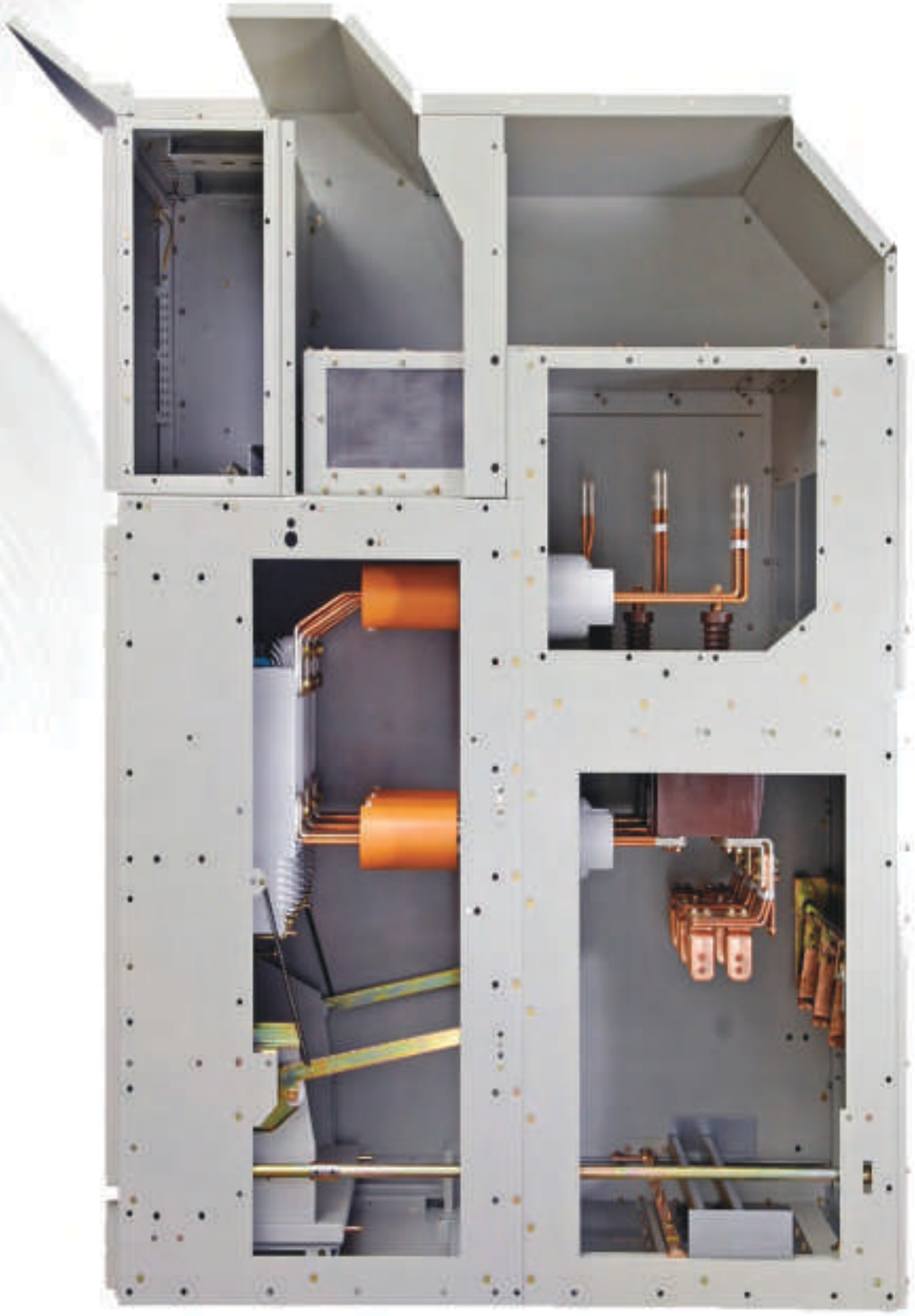
(Panel design)

1- Door of low-voltage.
- compartment.
2- Opening for locking or un locking.
- the low-voltage.
-compartment door.
3- Option: Capacitive voltage.
-detecting systemfor feeder.
-and busbar.
4- High-voltage door.
5- Inspection window for.
-checking the switchingdevice.
-truck.
6- Opening for locking or.
-unlocking the high-voltage door.
7- Opening for mechanical.
-charging of circuit-breaker.
-closing spring.
8- Openings formanual.
-operation (ON/OFF) of the.
-circuit-breaker.
9- Inspection window for.
-reading the indicators.
10- Door handle.
11- Openings for switchingdevice.
-truck operation.
12- Opening for earthing-switch.
-operation.
13- Pressure relief duct.
14- Busbars.
15- Bushings.
16- Post insulators.
17- Block-type current.
-transformer.
18- Option: Make-proof earthing
-switch.
19- Cable sealing ends.
20- Option: Voltage transformer.
21- Earthing busbar.
22- Low-voltage plug connector.
23- Vacuum interrupters.
24- Switching-device truck.





(Panel design)



Medium Voltage -AIS SWGR, up to 24 kV

- Type-tested, metal-clad, withdrawable.
- Selective disconnection by Block type current transformers.
- Truck Type Vacuum Circuit Breaker.
- Economic functional design.
- Compact dimensions (800 mm width).
- Individually operated shutters.
- Fully mechanically interlocked.
- All switching operations behind closed HV Door.
- Separate LV Compartment.
- Primary fused withdrawable PT.
- Top Cable Entry (option).
- Suitable for trench mounting.



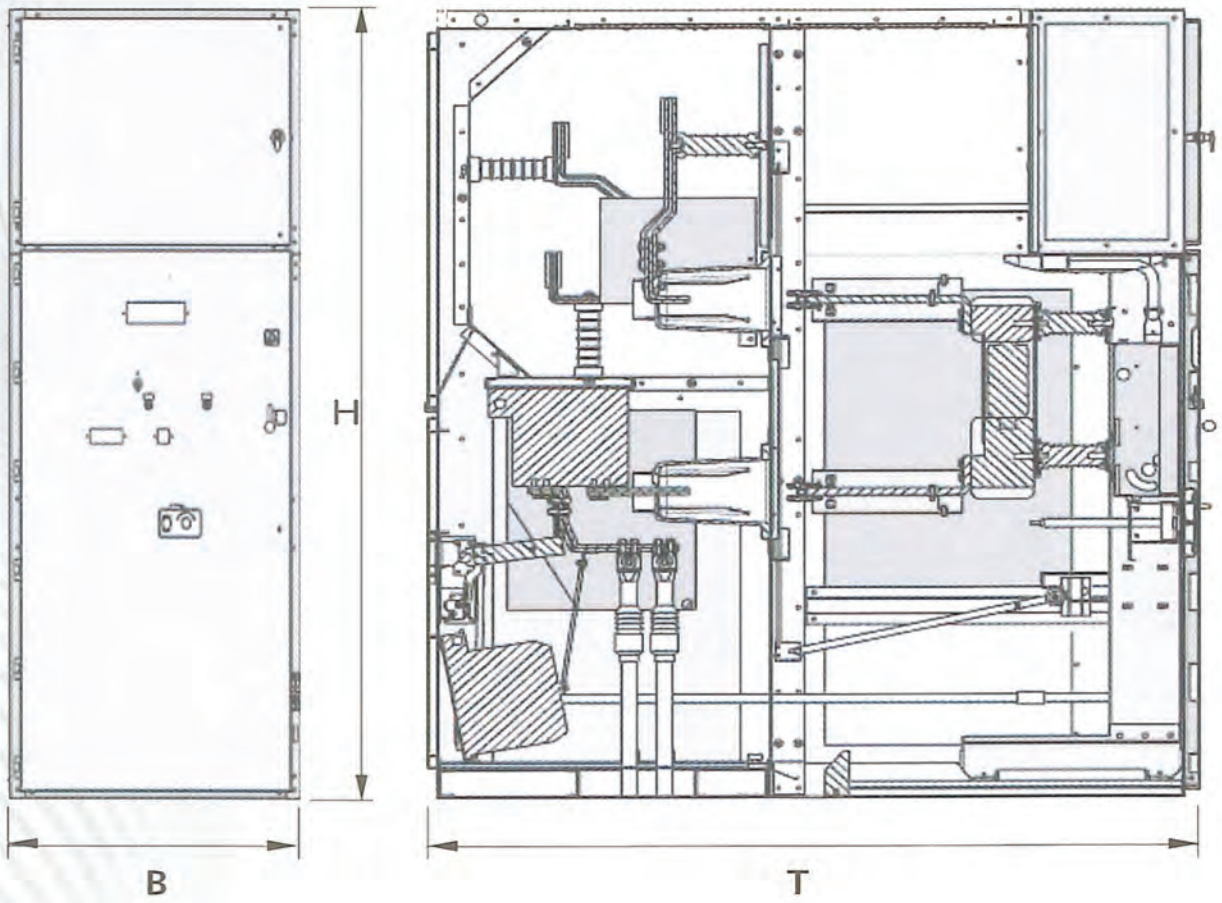
- Application: Power supply system
  - Power supply companies .
- Application: Industry
  - Power stations.
  - Cement industry.
  - Automobile industry.
  - Iron and steel works.
  - Rolling mills.
  - Mining industry.
  - Traction power supplies.
  - Chemical industry.
  - Petroleum industry.
  - Pipeline installations.
  - Offshore installations.
  - Electrochemical plants.
  - Petrochemical plants.
  - Shipbuilding industry.
  - Diesel power plants.
  - Emergency power supply.
  - installations.
  - Lignite open-cast mines.
  - Textile, paper and food industries.



Electrical data (maximum values) of SIMOPRIME A4

Ratings	Rated values (max.)
Switchgear up to 24 kV	
Rated voltage	24 kV
Rated frequency	50/60 Hz
Rated short-duration power-frequency withstand voltage	50 kV
Rated lightning impulse withstand voltage	125 kV
Rated short-time withstand current, 3 s	25 kA
Rated peak withstand current at 50/60 Hz	63 kA
Rated short-circuit breaking current	25 kA
Rated short-circuit making current at 50/60 Hz	63 kA
Rated normal current of busbar	2500 A
Rated normal current of feeders – with circuit-breaker – with fused load break switch	 2500 A As per fuse

Classification, dimensions, room planning



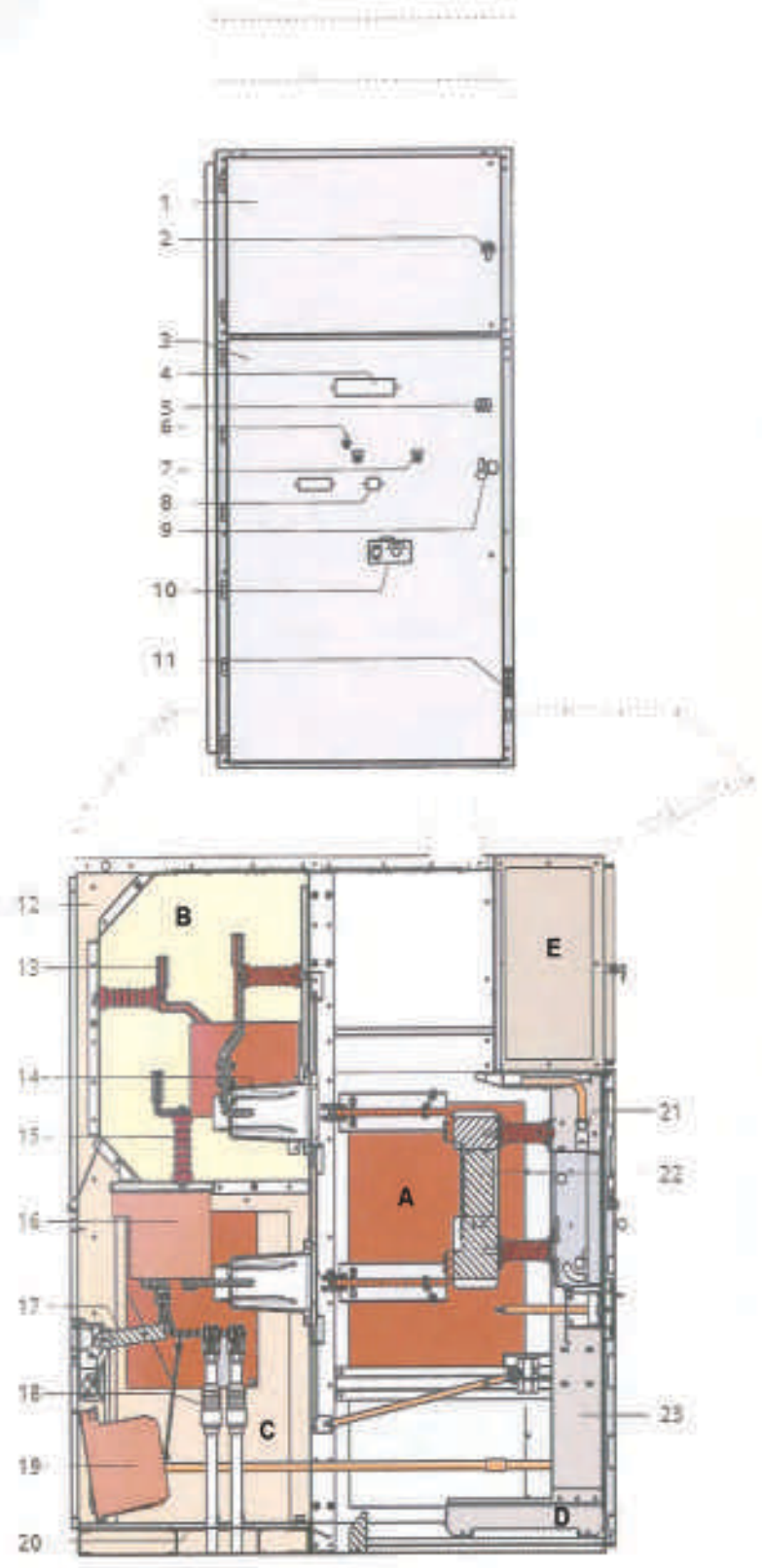
All panel types — Dimensions in mm

Width	B	Circuit-breaker panel for 1250 A for 2000 A	 800 1000
		Load Break Switch	500
Height	H	With standard low-voltage compartment and IAC 0.1 s	2250
Depth	T	Standard	1900

Panel design

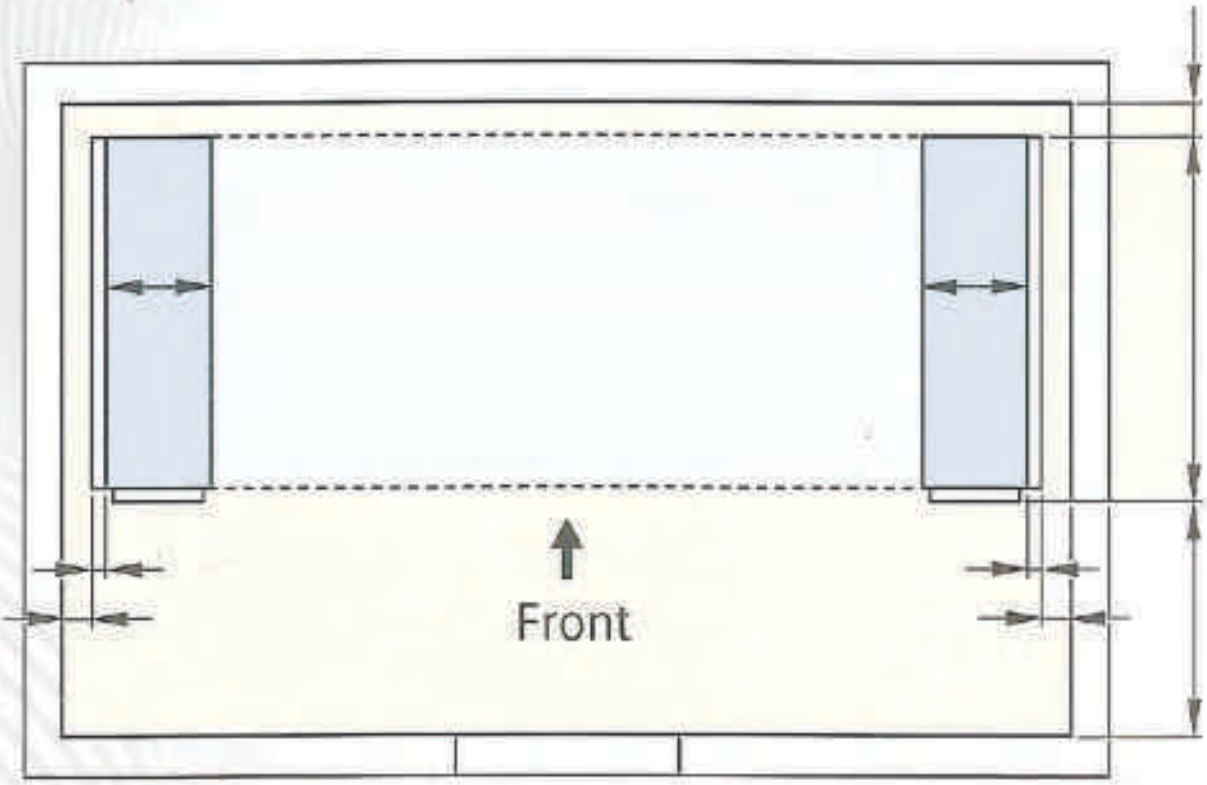
Legend for panel design:

1- Door of low-voltage
-compartment.
2- Opening for locking or unlocking
-the low-voltage
-compartment door.
3- Option: Capacitive voltage
-detecting system for feeder
-and busbar.
4- High-voltage door
5- Inspection window for
-checking the switchingdevice
-truck.
6- Opening for locking or
-unlocking the high-voltage
-door.
7- Opening for mechanical
-charging of circuit-breaker
-closing spring.
8- Openings for manual
-operation (ON/OFF) of the
-circuit-breaker.
9- Inspection window for
-reading the indicators.
10-Door handle.
11- Openings for switchingdevice
-truck operation.
12- Opening for earthing-switch
-operation.
13- Pressure relief duct.
14- Busbars.
15- Bushings.
16- Post insulators.
17- Block-type current
transformer.
18- Option: Make-proof earthing
-switch.
19- Cable sealing ends.
20- Option: Voltage transformer
21- Earthing busbar.
22- Low-voltage plug connector.
23- Vacuum interrupters.



Classification, dimensions, room planning

Single-row arrangement (plan view)
For dimensions B (width) and T (depth) refer to table on this page
1- For panel replacement: Control aisle 2000 mm
2- Minimum distance to wall 150 mm



- Circuit Breaker Compartment

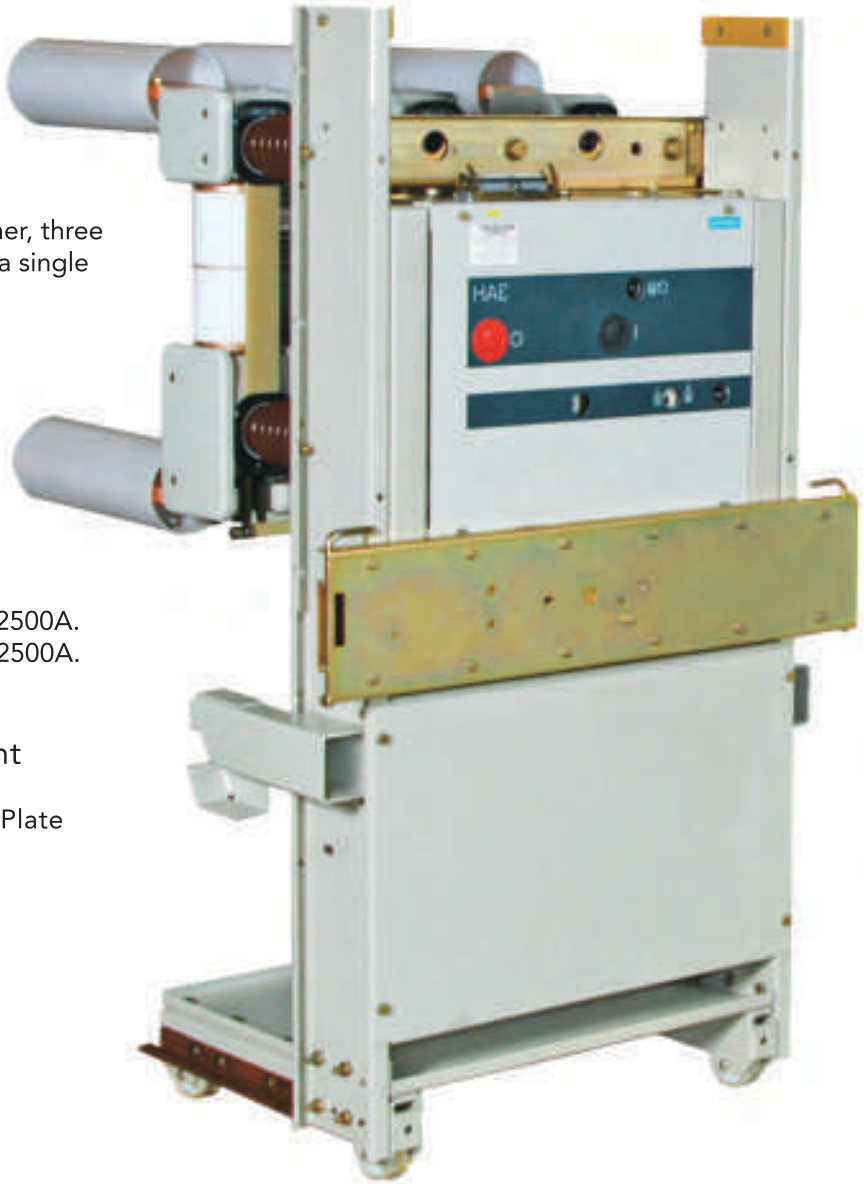
  Standard:

  Withdrawable Vacuum Circuit breaker type 3AH equipped with:
  Tripping Coil, Closing Coil, and Spring Charging Motor.

  Variations:

  - for Circuit Breaker options:
    - Range of Operating Voltages
    - Second Trip Coil
    - Undervoltage Release
    - Electrical Lockout
    - Extended Auxiliary Switches

  - for Withdrawable Metering Truck:
    - Range of voltages
    - Open delta winding
    - Primary Fuses, DIN style



- Metering Compartment
  - **Standard:**

  Withdrawable Voltage transformer, three single phase devices each with a single secondary winding

  - **Variations:**

  Voltage Transformer options:
  - Range of Voltages
  - Open-Delta Winding
  - Primary Fuses, DIN style

- Busbar Compartment
  - **Standard:**

  Busbar : 800 / 1250 / 2000 / 2500A.
  Droppers: 800 / 1250 / 2000 / 2500A.

- Low Voltage Compartment
  - **Standard:**

  700 mm high complete Gear Plate

- Cable Compartment
  - **Standard:**
    Cable entry from bottom, earth bar and bushings to the switching device compartment.
  - **Variations:**
    Cable fault making earth switch (25kA/1s)
    Current Transformer:
    - Block Type
    - Voltage Transformer, Block type

    Cable connections up to 4 cable / phase
    Lightning arrestor
    Gland plate
    - Steel, Aluminium, Stainless Steel, Brass

    Cable entry
    - Top, adds additional 600 mm cable box!



Customer Benefit

- Minimized spares due to Common Design.
- Reduced Installation Time/due to Simple Construction.
- Reduced Civil Expenditure
  - Independence from floor tolerance.
  - Compact dimensions.
- Easy exchange of switching devices due to use of individual Truck.
- Operational Safety Guaranteed
  - All operations behind closed door.
  - Independently Internal Arc fault type tested successfully as per IEC 62271-200.
  - Simple mode of operation.
- No degrading of insulation over time due to design not using heat shrink insulation.
- High availability/reliability by use of individually tested epoxy resin moulded bushings & insulators.
- Use of latest Vacuum technology for reliability.
- Reduced maintenance / Through life costs.
- Reduced investment payback period.

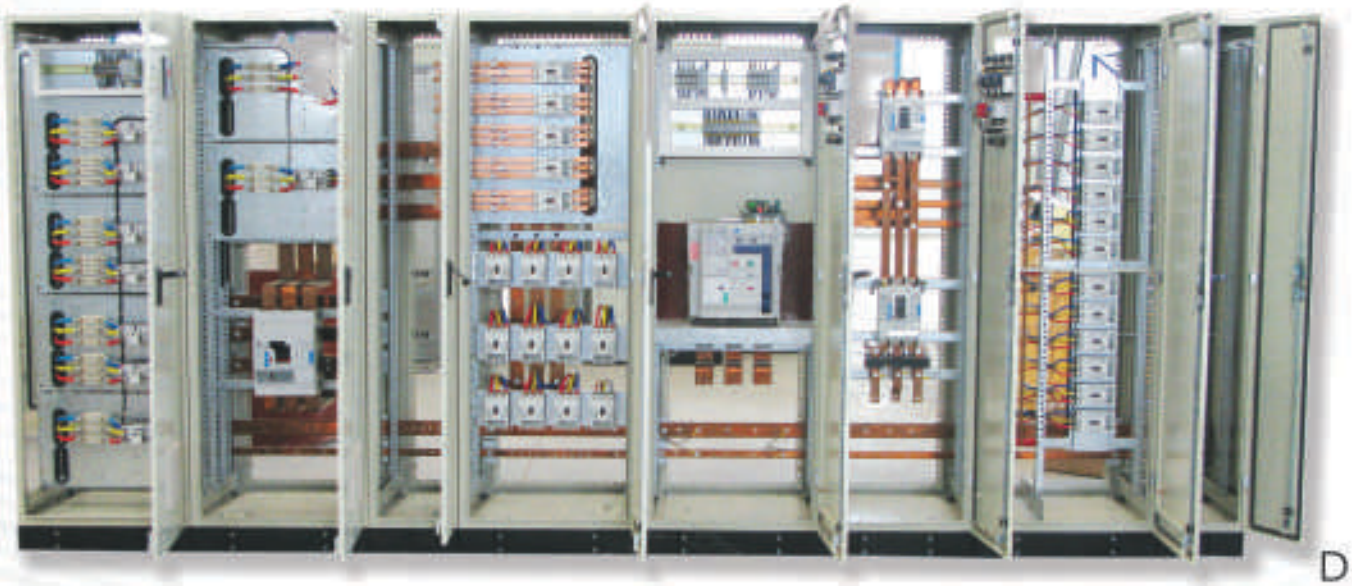


Switchgear SG-1

• Modular free standing enclosures

- Modular design .
- Compact, space saving design.
- No special tools are needed for assembly .
- Reduce space for storage and transportation
- High flexibility
- Designed according to customer needs
- Ability for future to extend
- Dimensions .
  -Height from 1500 mm up to 2200 mm.
  -Width from 400 mm up to 1200 mm.
  -Depth from 500 mm up to 800 mm.
- Protection degree IP 54.
- Internal separation from form 1 up to form 4
- Can be equipped with cable compartment
- Rated up to 4000A
- Design and assembled according to IEC 439-1
- All routine tests are applied
- Polyester powder RAL 7032 or 7035
- Incoming and outgoing feeder from top or bottom
- Applications
  -Main distribution boards and sub main
  -Motor Control Center
  - Power Factor Correction (PFC)
  - ATS panels
- As request 1 out of 2- 3 out of 5







- Compact, space saving design
- No special tools are needed for assembly
- Reduce space for storage and transportation
- High flexibility
- Designed according to customer needs
- Dimensions :
  -Height from 300 mm up to 1200 mm
  -Width from 300 mm up to 1000 mm
  -Depth from 200 mm up to 300 mm

- Protection degree up to IP 65
- Can be equipped cable compartment
- Rated current up to 630A
- Design and assembled according to IEC 439-1
- All routine tests are applied
- Polyester powder RAL 7032 or 7035 As Reqest
- Incoming and outgoing from top or bottom
- Can be recessed "Frame Must Be added" or wall mounted
- Applications :
  -Main & outgoing switchboards
  -Motor Starter
  -Load Center up to 72 Lines
- Available in stainless steel as per Request







Network Enclosures

There is wide range of network panel to meet the requirement of network sector.
the panel can be with out side cover make any expansion opportunities delivered .
frame: 2mm steel profile treated and painted with electrostatic .
panel: with or without side panel.
door: 2mm sheet steel treated and painted with electrostatic powder coating.
or sheet steel treated and painted with electrostatic powder coating with 5 mm safety glass with confort handle rear door from1.5 sheet steel fixed with 6 screw.
roof: plate steel sheet fixed with 4 screw.
painting: electrostatic powder coating.
RAL NO. 7032 OR 7035 as reqest.



Modular Enclosures

The cabinet kit is one cell or two...., according used to protect equipment against dust, and splashing water.
protection degree up yo IP54 to customer requestthe cabinets are available in carbon steel sheet treated and painted with polyester powder coating RAL NO.7032
Inside metal plate 2mm galvanized steel, punched and bended.
all cabinet kits are supplied standard with key lock handle with a three point locking mechanism.
- four eye bolts.
- frame, top and base are RAL 7032 or 7035
- door and back cover are RAL 7032 or 7035

the inner mounting panel is galvanized steel.
the kit includes:
- frame
- door

-back cover
- top
- bottom
- holder channel
- length 100mm height
- wiring plan pocket or 200mm height RAL 7030



RECESSED ELECTRIC BOX – SLIM

Applications: our product is suited for a large rang of applications, from home, commercial and medical institutes, to service industry ,large scale work shops and factories.

Body: made of cold rolled steel, sheet metal thickness of 0.8 mm (body) and 1.25mm (doors), chemically treated and painted with electrostatic powder coating,

Bar: Made Of Brass.

Screws And Connecting Tools: iron plated with zinc.

Features: our product offers high safety, durability and quality. With simple sleek design that blends in, as expected from distribution boxes.
We offer different sizes, colors and choices to meet our customer needs and applications.



72 Line Panel
Name: RECESSED ELECTRIC BOX_72 LINES-SLIM.
Code: SRH72-SLIM

L	W	D	Kg
400	905	102	11.5



84 Line Panel
Name: RECESSED ELECTRIC BOX_84 LINES-SLIM.
Code: SRH84-SLIM

L	W	D	Kg
400	1055	102	13.3



96 Line Panel
RECESSED ELECTRIC BOX_96 LINES-SLIM.
SRH96-SLIM

L	W	D	Kg
400	1205	102	15.05



Steel Products





Eletrical panels are used in indoors to protect
the enclosed controls from dust,dirt,and water splashing.
Contain KW/H meter 220V or380V.
body are made from high quality carbon steel 1,5mm formed and robotically welded treated and painted with electrostatic polyester powder coating.
RAL NO 7032 or 7035 as request.
Door carbon steel 1.5 mm formed and robotically welded high quality robotically seamless gasket ensures a complete and durable water tight seal.
Inside metal plate 2 mm galvanized steel, punched and bended
protection degree up to IP 65 as per request

Distribution Box



Body: made of cold rolled steel, chemically treated and painted with electrostatic powder coating.
Bar: made of brass.
screws and connecting tools: iron plated with zinc.

3 Line Panel

designed to be used in houses and hotels and projects in high quality and good design that meet our customers needs
All dimensions in mm

L	W	D
180	230	90



6 Line Panel

designed to be used in houses and hotels and projects in high quality and good design that meet our customers needs
All dimensions in mm

L	W	D
250	230	90



L	W	D
300	230	90

12/24 line Panel

designed in a new shape to be used in
houses and commercial shops there is possibility to
increase the number of MCBs and cancel the INC
ALL Dimensions in mm

L	W	D
380	350	90



12 line vertical with (INC)

vertical incomer and 12 lines so its a suitable for
homes & hotels and small shops
ALL Dimensions in mm

L	W	D
380	350	90



18 line vertical with (INC)

vertical incomer and 18 lines so its a suitable for
homes & hotels and small shops
ALL Dimensions in mm

L	W	D
380	350	90



24 line vertical with (INC)

vertical incomer and 24 lines so its a suitable for
homes & hotels and small shops
ALL Dimensions in mm

L	W	D
485	350	90



36 line vertical with (INC)

vertical incomer and 36 lines so its a suitable for
homes & hotels &large commerical shops and projects
ALL Dimensions in mm

L	W	D
595	350	90



36/48 line Panel

has the possibilty to put the INC
switch with 36 lines or 48 lines
ALL Dimensions in mm

L	W	D
595	350	90



12 lines panel with KW/H meter 220 V :

includes KW/H meter 220 V to be used
in houses commercial shops and villas
ALL Dimensions in mm

L	W	D
380	350	130



18 lines panel with KW/H meter 220 V :

includes KW/H meter 220 V to be used
in houses commercial shops and villas
ALL Dimensions in mm

L	W	D
595	350	130



24 lines panel with KW/H meter 220 V :

includes KW/H meter 220 V to be used
in houses commercial shops and villas
ALL Dimensions in mm

L	W	D
595	350	130



18 line with KW/H meter 380 V

its looks like the previous one but there is the possibilty
to install a 380 V counter to cover needs of clients
and give more electricity
ALL Dimensions in mm

L	W	D
595	350	160



24 line with KW/H meter 380 V

its looks like the previous one but there is the possibilty
to install a 380 V counter to cover needs of clients
and give more electricity
ALL Dimensions in mm

L	W	D
595	350	160



36 line with KW/H meter 380 V

its looks like the previous one but there is the possibilty
to install a 380 V counter to cover needs of clients
and give more electricity
ALL Dimensions in mm

L	W	D
755	350	160



counter 2 phase electronic KW/H meter 220V

includes KW/H meter 220 V to be used
in houses , commercial , shops and villas
ALL Dimensions in mm

L	W	D
300	230	90



counter 3 phase electronic KW/H and meter 380 V

looks like the previous one but there is the possibilty
to install a 380 V counter to cover all needs of clients
and give more electricity
ALL Dimensions in mm

L	W	D
380	283	90



counter with main 1P MCB KW/H and meter 220 V :

includes KW/H meter 220 V to be used
in houses commercial shops and villas
ALL Dimensions in mm

L	W	D
380	283	90



counter with main 3P MCB KW/H and meter 380V :

includes KW/H meter 380V to be used
in houses commercial shops and villas
ALL Dimensions in mm

L	W	D
380	350	90



Junction box with door

suitable desgin to facilitate wiring connection
available in
ALL dimentions :mm

L	W	D
230	250	90
230	300	90
350	380	90



Modular Enclosures Socket

Enclosure socket-outlet with different Sizes.
All models in cold steel treated and painted
with polyester powder coating for impact,temperature,
weather resistant to be suitable for industrial application.

protection
up to IP54

sockets

colour	rated current	voltage	H	N.pole
Red	32 A	250V	6 H	4P
Red	32 A	250V	6 H	5P
Red	16 A	250V	6 H	3P



Metal Enclosures IP54 & IP65

Electrical panels are used in indoors or outdoors to protect
the enclosed controls from dust, dirt, and water splashing.
Body are made from high quality carbon steel 1.5mm formed
and robotically welded treated and painted with electrostatic
polyester powder coating.

RAL NO 7032

Door Carbon steel 1.5mm formed and robotically welded high quality
robotically seamless gasket ensures a complete and durable water
tight seal.
inside metal plate 2mm galvanized steel , punched and bended

protection degree up to IP 65

Available in stainless steel as per request.



Control Desk

Control desks made of steel sheet protected internally and painted with polyester powder coating .
Body and door made of high quality carbon steel 1.5 mm formed and robotically welded treated and painted wiht electrostatic polyester powder coating
Earthing points on door,body and mounting plate
Inside metal plate 2mm galvanized steel,punched and bende.
Depth-adjustable for mounting plate.
Double lock operated by key.
Available in stainless steel as per Request
Available in dimensions in mm

W	600
W	800
W	1000
W	1200





Metal Junction

		d1	d2	d3
230	250	(90)	130	160
230	300	(90)	130	160
350	380	(90)	130	160
350	595	(90)	130	160







Distribution Box

Different groups of recessed and surface mounted plastic panels designed in order to allow an easy and quick installation of modular fitting and its wirings.
Protection degree IP 40 complying with IEC 529
Grey RAL 7035
High impact material : IK8 mechanical protection degree according to CEI EN 50102 standard
Flame and fire resistance according to IEC 695-2-1 halogen free
Total installation features (CEI 64-8, EN 60439-1, CEI 17-13\1) (IEC 60309-1).
temperature rating: -25 c to+ 80 c
Glow -wire test: IEC 598-1, section(13,13.3.2)

Type	Descriptions
4/6	lines panel recessed
4/6	lines panel surface mounted
8/12	lines panel recessed
8/12	lines panel surface mounted
24	lines panel recessed
24	lines panel surface mounted



Cable Gland IP65 & 67

Cable gland IP 65
with stress relief metric threaded connection.
Fiber glass polymide
Impact & temperature resistant
Grey RAL 7035
Available in different Dimensions

Type	NO
PG	9
	11
	13.5
	16
	21
	29
	36
	42
	48



Industrial Plugs & Sockets

Plugs,socket-outlets and couplers for industrial purposes.
Protection degree IP 44 complying with IEC 529 in Blue for 16 A.
High impact material:IK9 mechanical protection degree According to EN 50102 standard.
Flme and fire resistance according to LEC 695-2-1
Halogen free.
Rateted voltage for 16A 200-250V 2P+E 50-60 Hz.
Glow-wire test: IEC598-1
Temp .rating :50C to 80C
Application: for industrial application machines,factories.



Colour	IP	Rated current	voltage	H	N.Pole
Red	44	32	250	6	4
Red	44	32	250	6	5
Blue	44	16	250	6	3

Plastic Junction Box

Connection Boxes in insulating material in a good design shape.
protection degree complying with IEC 529
IP 44 & 54 & 67 Grey Ral 7035
High impact material : IK8 mechanical protection degree according to CEI EN 5010 standard
flame and fire resistance according to IEC 695-2-
Halogen free.
Total insulation features (CEL 64-8, EN 60439-1CEL 17-13/1) (IEC 60309-1)
Temperature rating :- 25c to + 80c screw close cover
Screw close cover
Glow-wire test:IEC 598-1,Section (13,13.3.2)
cable gland pg :16 & 29
Sizes in mm



Sizes		IP
310	230	54
200	250	54
200	148	54
180	116.5	54
150	150	54
100	100	67
Ø90		44
90	96	44

Tube Holder





Plastic tube holder with ⌀ 20
Plastic tube holder with ⌀ 25
Plastic tube holder with ⌀ 40
Plastic tube holder with ⌀ 50

Circuit Breaker Box

Protection degree IP 40 complying with IEC 529.
Grey RAL 7035
High impact material: IK8 mechanical protection degree according to CEI EN 50102 standard.
Flame and fire resistance according to IEC 695-2-1.
Halogen Free.
Total insulation features CEI 64-8, EN 60439-1 CEI 17-13\1) (IEC 60309-1).
Temperature rating: -25 c to +80 c
Simply close clip cover.
Glow-Wire test: IEC 598-1, section (13,13.3.2) .

1-2 line surface mounted
1-2 line recessed
3-4 line surface mounted
3 line recessed





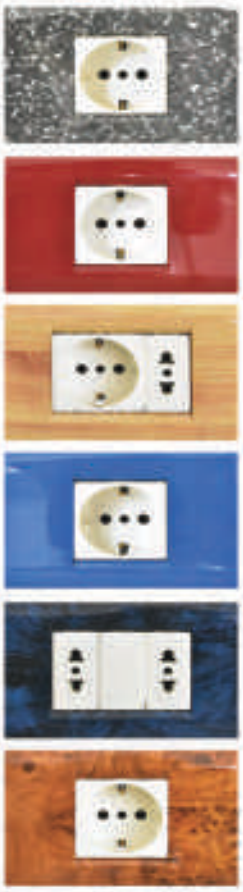




Wiring Devices

Residential and Commercial Application that can Meet All Customer Needs.













The Optical Network Terminal (ONT) converts the optical signal coming through the fiber into separate signals for TV, voice, and data. The ONT is installed with Fios service on either the outside or inside of your home (garage, basement, closet, etc).



The Verizon Fios network must be able to communicate with your ONT at all times.

Dimension in mm

630*630*140
Sheet Metal Thickness 1.5mm

At one point in time, only 1 port of your ONT is active and supplying your MyRepublic connection. The rest should have no internet access.



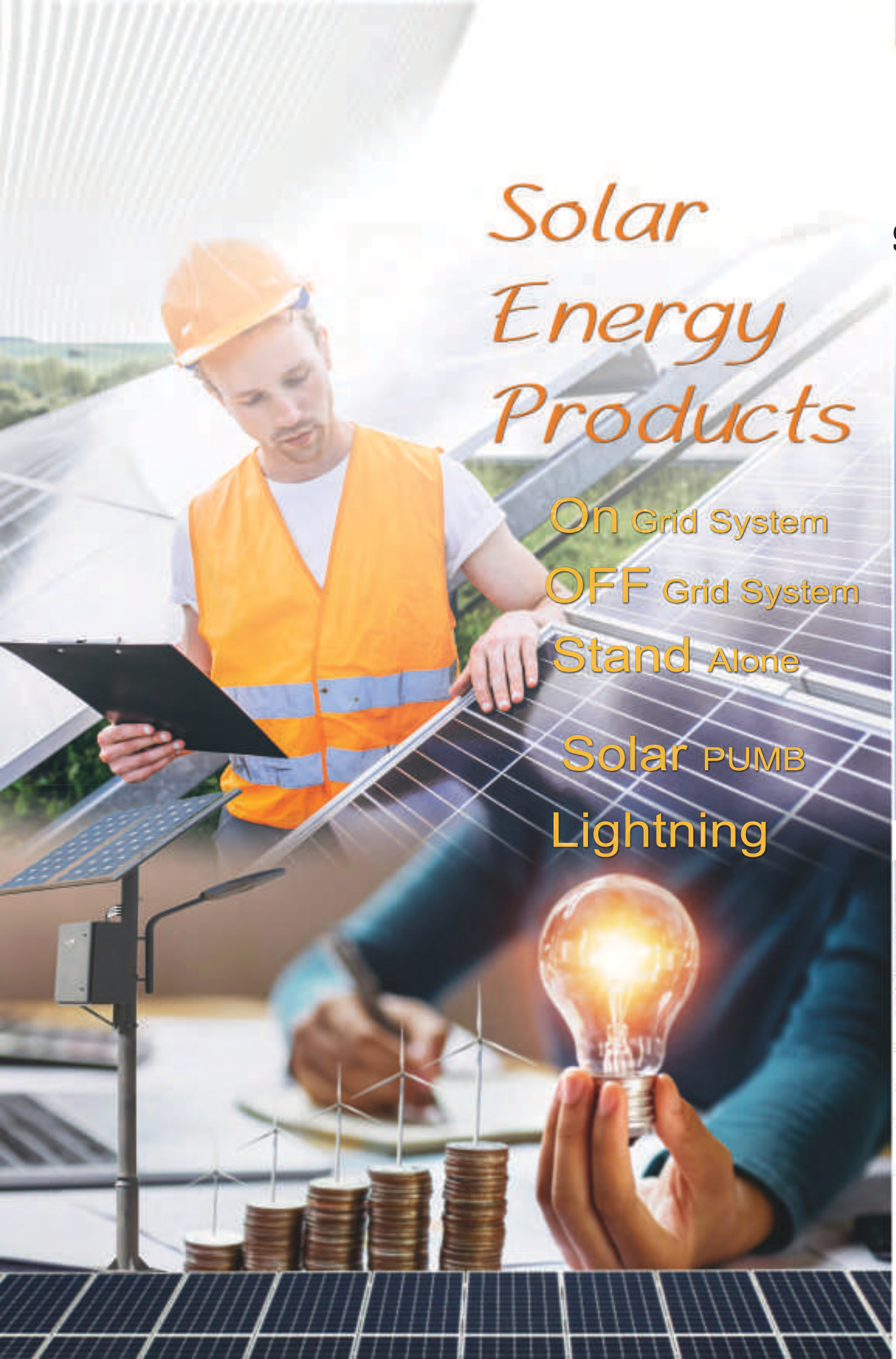
If you signed up for Double Ultra, the 2nd port will be active as well, delivering another 1Gbps connection while using only 1 Termination Point port (it's magic!).

MyRepublic ONT Device.

Dimension in mm

457*357*120
Sheet Metal Thickness 1.5mm




Solar
Energy
Products
On Grid System
OFF Grid System
Stand Alone
Solar PUMB
Lightning

SEGA. M Solar energy Department

- The increasing demand on electric energy grid, the need to reduce the negative environmental impact of fossil fuel generationplants Plants and the rise of different types of electric loads in remote
sites inaccessible to grid and many other factors have led to renewable energy sources as an alternate
to conventional electricity generation methods
Solar energy, being the most abundant renewable energy source with high flexibility to all applications
and sizes (using photo voltaic modules - PV)
became a priority for Sega-M
Sega-M deployed its high expertise and manufacturing capabilities in electrical products and installations
to provide various PV solutions to individuals, contractors and government institutions

- Sega-M took the initiative providing most solar energy applications :

1- Solar-powered highway lighting poles.
2- Solar-powered street lighting poles.
3- Grid-tied solar energy generation units.
4- Off-grid solar energy generation units.
5- Solar powered water pumping units.
6- Solar powered water desalination units.
7-Company is ready to implement all PV projects through highly experienced partners with international quality certifications and our own plants advanced capabilities to design,supply
and install systems using local products and Egyptian workforce in a percentage up to 50%
8- Company provides maintenance contracts according to client specifications.
9- The company is also contented to train workforce on installation and maintenance proce dures.



Stand Alone



Landscape



On Grid , Off Grid



Stand Alone Lighting



Add - Panel



Street Lighting

Grid-tied 40kWp solar PV Plant specifications (with generation and consumption capabilities)

Description PV modules	
count	160
type	Poly-Crystalline
Maximum power (Pmax) at STC	250 W
Maximum power point voltage (Vmpp) at STC	30.15 V
Maximum power point current (Imp) at STC	8.29 A
Efficiency	15.72 %
Operating temperature	(40 -) ~ (85 +)℃
Protection level	IP 65
Dimensions	1650 *992*40 MM
weight	19.5 kg

PV modules are built according to IEC standards and TUV, VDE and CE certified.

General inverter specifications

three phase, 380V, 50Hz	
count	3
Output Power	15 KW
Output current	25 A
Power Factor	0.9 leading .....0.9 leading
Efficiency	98.2%
Dimensions	516*650*203 MM
weight	39 kg
Protection level	IP 65

- Cooling: Forced
- Communication: Bluetooth, WiFi
- Interface: LCD: 5 inch
- Operating temperature (-20 to 60 c)
- Automatic disconnect in case of grid loss.
- Built according to IEC standards, VDE and CE qualified

Conductors	
Material	Copper
Maximum current	30 AMP
Maximum voltage	1000 V
resistance	Less than 0.5 m.ohm/meter
Protection level	IP 65
Operating temperature	˚C (+ 85) ~ (- 40)

Conductors are manufactured according to IEC standards and VDE,CE certified

Cables	
Insulation	Halogen - Polyolefin blocker for fires
sheath	Halogen - Polyolefin blocker for fires
maximum voltage	1000v / 600v
Degree operating temperature	C (+ 85) ~ (- 40)

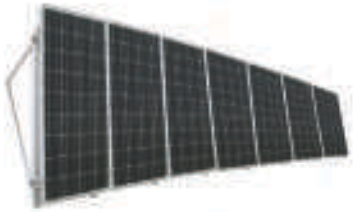
Cables are manufactured according to IEC standards and VDE,CE certified

Mounting Structure
Made of anodized aluminum to withstand harsh weather conditions.

PANEL LAY OUT



MAIN PROFIL HOLDER SOLAR
MATERIAL : ALUMINUM
THICKNESS : 2MM



TRIANGLE MOUNT
MATERIAL : SHEET METAL
THICKNESS : 3 MM



END CLAMP
MATERIAL : ALUMINUM
THICKNESS : 3MM



MID CLAMP
MATERIAL : ALUMINUM
THICKNESS : 3MM



Appendix
40kW On-Grid PV Genration plant
simulation report



SEGA.M	PVSYST V5.67		23/07/13	Page 1/4

Grid-Connected System: Simulation parameters

Project : **the ministry of electricity**

Geographical Site	**Cairo**		**Country**	**Egypt**
Situation	Latitude	30.1°N	Longitude	31.2°E
Time defined as	Legal Time	Time zone UT+2	Altitude	16 m
	Albedo	0.20		

Meteo data : **Cairo, Synthetic Hourly data**

Simulation variant : **250 W**

Simulation date 23/07/13 13h20

Simulation parameters

Collector Plane Orientation	Tilt	30°	Azimuth	0°
Horizon	Free Horizon			
Near Shadings	Linear shadings			

PV Array Characteristics

PV module	Si-poly	Model	**ZXP6-60-250/P**	
		Manufacturer	ZNSHINE PV-Tech Co., Ltd.	
Number of PV modules		In series	16 modules	In parallel 10 strings
Total number of PV modules		Nb. modules	160	Unit Nom. Power 250 Wp
Array global power		Nominal (STC)	**40.0 kWp**	At operating cond. 35.9 kWp (50°C)
Array operating characteristics (50°C)		U mpp	442 V	I mpp 81 A
Total area		Module area	**262 m²**	

Inverter		Model	**GW15K-DT**	
		Manufacturer	GOODWE	
Characteristics		Operating Voltage	260-850 V	Unit Nom. Power 15.0 kW AC
Inverter pack		Number of Inverter	3 units	Total Power 45.0 kW AC

PV Array loss factors

Thermal Loss factor		Uc (const)	20.0 W/m²K	Uv (wind) 0.0 W/m²K / m/s
=> Nominal Oper. Coll. Temp. (G=800 W/m², Tamb=20°C, Wind=1 m/s.)				NOCT 56 °C
Wiring Ohmic Loss		Global array res.	144 mOhm	Loss Fraction 2.3 % at STC
Module Quality Loss				Loss Fraction 0.0 %
Module Mismatch Losses				Loss Fraction 2.0 % at MPP
Incidence effect, ASHRAE parametrization		IAM =	1 - bo (1/cos i - 1)	bo Parameter 0.05

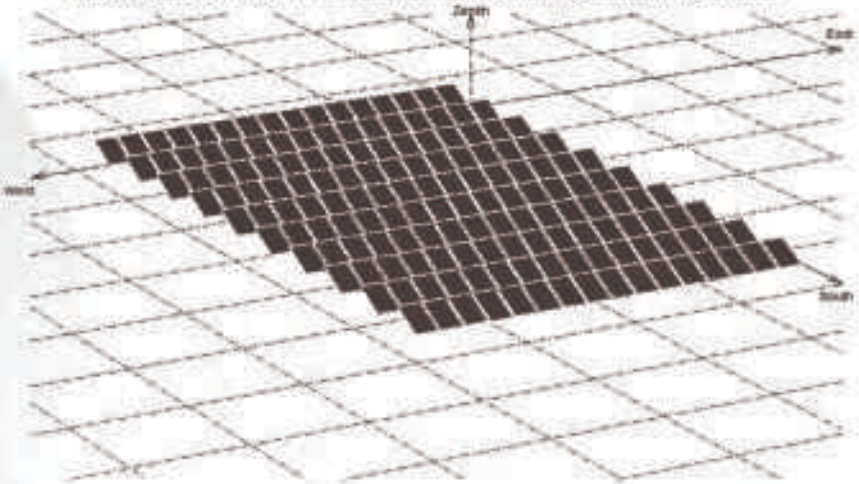
User's needs : Unlimited load (grid)

Grid-Connected System: Near shading definition

Project : **the ministry of electricity**
Simulation variant : **250 W**

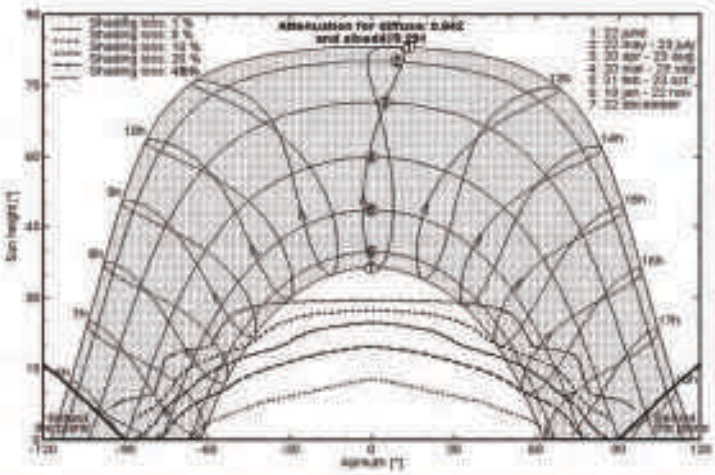
Main system parameters	System type	**Grid-Connected**		
Near Shadings	Linear shadings			
PV Field Orientation	tilt	30°	azimuth	0°
PV modules	Model	ZXP6-60-250/P	Pnom	250 Wp
PV Array	Nb. of modules	160	Pnom total	**40.0 kWp**
Inverter	Model	GW15K-DT	Pnom	15.00 kW ac
Inverter pack	Nb. of units	3.0	Pnom total	**45.0 kW ac**
User's needs	Unlimited load (grid)			

Perspective of the PV-field and surrounding shading scene



Iso-shadings diagram

the ministry of electricity: the ministry of electricity



Grid-Connected System: Main results

Project : **the ministry of electricity**

Simulation variant : **250 W**

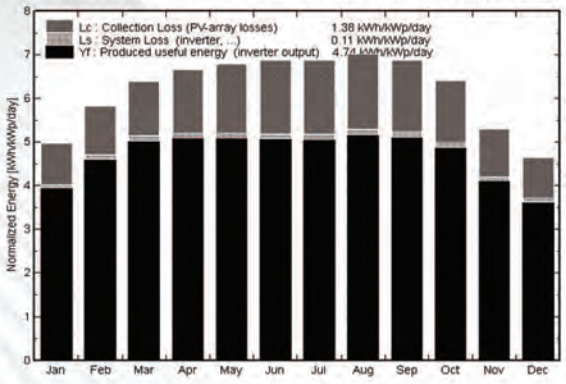
Main system parameters	System type	**Grid-Connected**			
Near Shadings	Linear shadings				
PV Field Orientation	tilt	30°	azimuth	0°	
PV modules	Model	ZXP6-60-250/P	Pnom	250 Wp	
PV Array	Nb. of modules	160	Pnom total	**40.0 kWp**	
Inverter	Model	GW15K-DT	Pnom	15.00 kW ac	
Inverter pack	Nb. of units	3.0	Pnom total	**45.0 kW ac**	
User's needs	Unlimited load (grid)				

Main simulation results

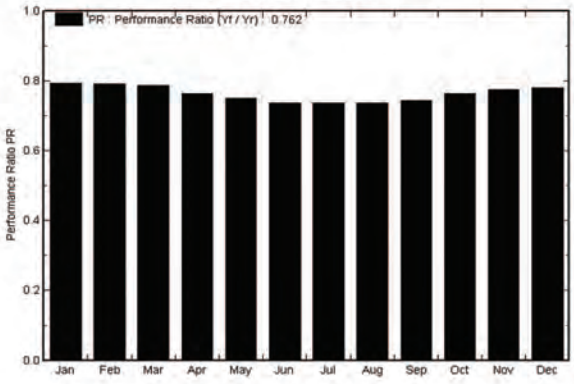
System Production — **Produced Energy** **69.2 MWh/year** — Specific prod. 1729 kWh/kWp/year

Performance Ratio PR 76.2 %

Normalized productions (per installed kWp): Nominal power 40.0 kWp



Performance Ratio PR



250 W

Balances and main results

	GlobHor kWh/m²	T Amb °C	GlobInc kWh/m²	GlobEff kWh/m²	EArray MWh	E_Grid MWh	EffArrR %	EffSysR %
January	106.0	14.20	154.2	143.7	5.003	4.893	12.39	12.12
February	124.0	15.10	163.0	154.5	5.277	5.164	12.36	12.10
March	172.0	17.70	198.2	188.0	6.380	6.242	12.29	12.03
April	198.0	21.60	199.8	189.2	6.251	6.115	11.95	11.69
May	232.0	24.70	210.2	198.3	6.461	6.316	11.74	11.47
June	239.0	27.40	206.3	194.3	6.231	6.088	11.53	11.27
July	242.0	28.00	213.4	201.2	6.433	6.286	11.51	11.25
August	224.0	27.70	217.5	206.2	6.560	6.418	11.52	11.27
September	188.0	26.80	206.3	196.3	6.283	6.147	11.63	11.38
October	157.0	24.00	198.4	188.7	6.191	6.060	11.92	11.67
November	113.0	19.70	159.2	149.8	5.053	4.942	12.12	11.86
December	96.0	16.00	143.9	133.1	4.600	4.495	12.21	11.93
Year	2091.0	21.94	2270.2	2143.3	70.722	69.166	11.90	11.63

Legends:

GlobHor	Horizontal global irradiation	EArray	Effective energy at the output of the array
T Amb	Ambient Temperature	E_Grid	Energy injected into grid
GlobInc	Global incident in coll. plane	EffArrR	Effic. Eout array / rough area
GlobEff	Effective Global, corr. for IAM and shadings	EffSysR	Effic. Eout system / rough area

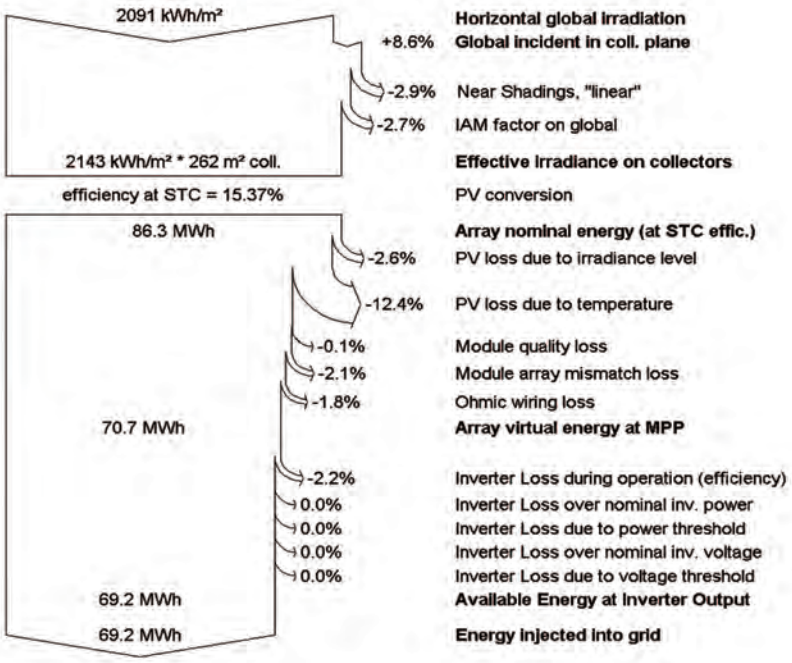
Grid-Connected System: Loss diagram

Project : **the ministry of electricity**

Simulation variant : **250 W**

Main system parameters	System type	**Grid-Connected**		
Near Shadings	Linear shadings			
PV Field Orientation	tilt	30°	azimuth	0°
PV modules	Model	ZXP6-60-250/P	Pnom	250 Wp
PV Array	Nb. of modules	160	Pnom total	**40.0 kWp**
Inverter	Model	GW15K-DT	Pnom	15.00 kW ac
Inverter pack	Nb. of units	3.0	Pnom total	**45.0 kW ac**
User's needs	Unlimited load (grid)			

Loss diagram over the whole year



Solar Powered Chaise longue

Enjoy nature, Without giving up technology!

Stand -alone means freedom to choose location With self controlled lighting, the system gives a night light with no need to extend cables or the fuss of operator personnelor complicated control circuits. AC and DC capabilities provide the ability to run your laptop, smart phone or tablet at a finger touch.
IP 65 means safety against water spraying and dust blowing thus suitable to place in gardens, beaches or around swimming poles.



Solar panels

solar cell, also called photo voltaic cell converts solar radiation to electric energy directly. A group of cells wired together makes a module, making enough voltage for application. Mono Crystalline cells are have best efficiency.

PV



Batteries

They store energy for night use and provide a stable voltage with the varying PV voltage.
They are charged through PV modules and they power different loads through a controller.



Charger



Battery

projects reference short list

40 years



superiority

Projects

A

B

C

D

E

F

G

SEGA.M ELECTRICAL PRODUCTS

Porto Sokhna

ORASCOM CONSTRUCTION

EMAC

WARDA

WADI DEGLA

MUST

CRÉDIT AGRICOLE

LV Projects reference short list

- (A) Frame 3 projects (4000, 5000 and 6300A)
  - New Saudi Embassy in Cairo
  - (SECO factory in Badr City) Industry Segment
  - Academy of Arts tt– Higher Institute of Arts
  - (PPg & hail in SEC- KSA)Infra Structure & Utilities Segment
  - Porto El Sokhna – behind towers project
  - Nile Badrawy Hospital
  - Networks Drinking Water and Sanitation District Fourth and Fifth for New arabs Tower
  - Naqada
  - Toshka
  - Industrial and Engineering projects company
  - Marble and granite factory
  - project 6000

- (B) Frame 2 projects (2500 & 3200A)
  - Samanoud Hospital
  - Porto El Sokhna – Old Town Mall
  - MUST Academic University Hospital
  - Ain Shams University Obour Hospital
  - Ain Shams University Eldemerdash Hospital
  - WEPCO- Revamping of WAQ platform Elec. System Oil & gas Segment
  - New Saudi Embassy Chancellery
  - Academy of Arts – Sayed Darwish hall
  - (Monopharma Factory in Badr City (Industry Segment
  - (October pharma factory in October City (Industry Segment
  - The Liver Institute
  - Pyramid Plateau Project
  - Makadi Village in Hurghada
  - (Venus ceramic factory (Industry Segment
  - Sahragat village plant Sewage Water Purification Infra Structure & Utilities Segment
  - (Mansoura for Resins & Chemical Industries factories (Industry Segment
  - Faculty of Commerce – Alexandria University
  - Faculty of Dentistry- Ain Shams University
  - Faculty of Pharmacy – Ain Shams University
  - Badr University
  - Ain Shams University – Campus Restaurant
  - (Egyptian Railways Stations Renewal (Infra Structure & Utilities Segment
  - Nasr City Public Insurance Hospital
  - Telal El Sokhna
  - German school
  - English School
  - The satellite

- (C) Frame 1 Project (Up to 2000A)
  - More than 1000 projects in the last 5 years only, in several segments such as building and Tourism (Mivida, Marrasi, etc) Industrial (a lot of factories at all industrial cities all over Egypt) and Infrastructure Qena water treatment Station ,West Damietta Simple Cycle gas Turbine Units DBs, El Atf Pump Station , etc.....
  - Artillery Mall 2000 A
  - Al-Meliz Airport 1000 A
  - Bernice Airport 2000 A

- Busway
  - Jockey Factory 5000 A
  - October pharma factory in October City (Industry Segment 2500 A)
  - National Bank Of Egypt 800 A
  - El obour hospital 2500 A
  - Childeren hospital 2500 A




SIVACON








SIVACON






SIVACON
SIVACON
SIVACON
SIVACON
EMAAR













ORASCOM CONSTRUCTION

Beni Suef












Porto
Sokhna




الأهرام


EMAC
TECNOLOGIA VITALE









Esna













Networks Drinking Water and Sanitation District Fourth and Fifth for New arabs Tower (5000A)

CREDIT AGRICOLE






ORASCOM



SEGA. M Accreditation

As result of our effort to produce high quality products we have the pleasure to announce that we have obtained these Certificates:

- EXPO 2021 DUBAI SI EP PARTNER AWARDS 2021
- LV,SIVACON S8, Low Voltage Switchgear.
- SIEMENS,AG Certificates for medium voltage SIMOPRIME 7.2 -17.5 kV
- SIEMENS,AG Certificates for medium voltage SIMOPRIME A4 (24kV)
- ISO 9001, 14001, 18001 Certificates by Tuv Nord
- Kema Certificates for Plastic Junction Box
- Products certificates
- Extra High Voltage Research Center Test Certificate for Load Center
- TUV Certificates for load Counter MCCB
- EGAC Certificates
- Import Certificate & Export Certificate
- EOS Certificates for Residention Plugs and Socket
- Egypian Electricity holding company certificete
- Certificate of meeting the percentage of the Egyptian component, Ministry of Industry and Trade
- EIOT
- Proudly certified made in Egypt.



EXPO 2021 DUBAI SI EP PARTNER AWARDS 2021

Certificate of Appreciation

Electrical Products Partner Awards 2021

SEGA-M

In recognition of your commitment to excellence as an outstanding partner for Smart Infrastructure Electrical Products Middle East.

We appreciate your contribution and commitment that enables us to reach new heights together. Your success is our success!

We wish you all the best in achieving many more milestones

Dubai, November 29, 2021

Andreas Matthé
Global CEO
SI EP

Florian Gauglitz
Senior Vice President
RC-AE SI EP Middle East

SIEMENS

EXPO 2021 DUBAI SI EP PARTNER AWARDS 2021



SI EP PARTNER AWARDS 2021

Eng. Maher Sadek Sega M chairman receiving Business Expansion And Growth Award from Andreas **Mr. Matthe Global** CEO And Mr.Florian Gauglitz Senior Vice President.





SIEMENS

Certificate

SIMOPRIME Technology Partner

Siemens AG
Smart Infrastructure
Electrification & Automation

SEGA M Company for Electrical Products
A3 Industrial Area, 10th of Ramadan City, 0000 Sharkia, Egypt

is a certified SIMOPRIME Technology Partner.

In the context of the technical cooperation and license agreement the company is qualified and authorized to manufacture type-tested medium voltage switchgear based on type

SIMOPRIME World (7.2 - 17.5 kV) and SIMOPRIME A4 (24kV)

The certificate is valid until 01.04.2025

Erlangen, 01.08.2023

stephan may — Electronically signed by: stephan may Date: Aug 8, 2023 09:58 GMT+2

Stephan May
CEO SI EA

Electronically signed by: M.Bauersachs Date: Aug 8, 2023 11:28 GMT+2

Marcus Bauersachs
Head of SI EA Finance

SIEMENS



SIBOARD Certificate

SIEMENS SIBOARD Licensed Partner

We hereby certify that,

Company: **Sega M for Electrical Products**

Location: 10th of Ramadan City, Zone A-3, Egypt

is an Authorized SIEMENS Partner who is eligible to manufacture and sell design verified Distribution Boards Type "SIBAORD" up to 800A according to IEC 61439-1/2/3 using SIEMENS Components.

Certificate Validity: Until 30.09.2024

SIEMENS Industrial LLC
Bureau 175, Al-Horreya Axis - 90th South Road
P.O. Box 245/11835, Cairo, Egypt
Fax: +20 22614 1099
eg.support.eg@siemens.com

SIEMENS Licensed Partner

Abdullah El-Bagoury
Head of Sales & Channel Partners Director
Electrical Products Business Unit

Mohamed Badran
Senior Vice President
Head of Electrical Products Business Unit

SIEMENS


SIVACON
SIEMENS
Certificate
SIVACON Technology Partner
Siemens Aktiengesellschaft, hereby certifies that the company
SEGA M Company for Electrical Products
All Industrial Area, 10th of Ramadan City, 0000 Sharkia, Egypt
is a SIVACON Technology Partner.
In the context of the cooperation agreement, we grant the company named above the right to manufacture and sell the SIVACON design verified low-voltage power distribution board.
Look at
The certificate is valid until: 19.09.2023
Certificate no: I/0620-004
Leipzig, 19.09.2023
Siemens Aktiengesellschaft
Eckhard Schönfisch
Kathleen Koch
SIEMENS

ISO 9001, Certificates by Tuv Nord



TÜV NORD

CERTIFICATE

Management system as per

ISO 9001 : 2015

Quality Management Systems-Requirements

In accordance with TUV HELLAS (TUV NORD) S.A., procedures, it is hereby certified that

SEGA M FOR ELECTRICAL PRODUCT
A3 Industrial Zone
10th of Ramadan City
Egypt

SEGA.M
ELECTRICALPRODUCTS

applies a management system in line with the above standard for the following scope

Design, Development, Manufacturing and Sales of Electrical Panels Housing, Industrial Connectors, Plastic Distribution Boxes, Electrical Accessories, and Distribution Panels with Electrical Components and Led Products.

Certificate Registration No. 041 13 0229
Audit Report No. E 2091/2021

Valid from 2021-11-02
Valid until 2024-10-15
Initial certification 2008

TUV HELLAS (TUV NORD) S.A. Certification Body

Athens, 2021-11-02

This certification was conducted in accordance with the TUV HELLAS (TUV NORD) S.A. auditing and certification procedures and is subj
to regular surveillance audits

IAF ESYD

TUV NORD SYSTEM CERTIFICATION

TUV HELLAS S.A. 282, Mesogeion Ave., 155 62 Chrisargos, Athens, Greece

ISO , 14001 Certificates by Tuv Nord



TÜV NORD

CERTIFICATE

Management system as per
ISO 14001 : 2015
Environmental Management Systems - Requirements with guidance for use
In accordance with TÜV HELLAS (TÜV NORD) S.A. procedures, it is hereby certified that

SEGA M FOR ELECTRICAL PRODUCT
A3 Industrial Zone
10th of Ramadan City
Egypt

SEGA.M
ELECTRICALPRODUCTS

applies a management system in line with the above standard for the following scope

Design, Development, Manufacturing and Sales of Electrical Panels Housing, Industrial Connectors, Plastic Distribution Boxes, Electrical Accessories, and Distribution Panels with Electrical Components and Led Products.

Certificate Registration No: 042 13 0032
Audit Report No: EM-0236/2021

Valid from 2021-11-02
Valid until 2024-10-07
Initial certification 2009

TÜV HELLAS (TÜV NORD) S.A. Certification Body

Athens, 2021-11-02

The certification was conducted in accordance with the TÜV HELLAS (TÜV NORD) S.A. auditing and certification procedures and is subject to regular surveillance audits.

IAF ESYD

TÜV NORD HELLAS SYSTEM CERTIFICATION

ISO , 45001 Certificates by Tuv Nord



TÜV NORD

CERTIFICATE

Management system as per

ISO 45001 : 2018

Occupational health and safety management systems - Requirements with guidance for use

In accordance with TUV HELLAS (TUV NORD) S.A. procedures, it is hereby certified that

SEGA M FOR ELECTRICAL PRODUCT
A3 Industrial Zone
10th of Ramadan City
Egypt

SEGA.M ELECTRICAL PRODUCTS

applies a management system in line with the above standard for the following scope

Design, Development, Manufacturing and Sales of Electrical Panels Housing, Industrial Connectors, Plastic Distribution Boxes, Electrical Accessories, and Distribution Panels with Electrical Components and Led Products.

Certificate Registration No. 047 13 0021
Audit Report No. OH-0187/2021

Valid from 2021-11-02
Valid until 2024-09-30
Initial Certification 2012 (BS OHSAS 18001)

TUV HELLAS (TUV NORD) S.A. Certification Body

Athens 2021-11-02

This certification was conducted in accordance with the TUV HELLAS (TUV NORD) S.A. auditing and certification procedures and is subject to regular surveillance audits

IAF ESYD

TUV NORD SYSTEM CERTIFICATION

TUV HELLAS S.A. 262, Messogeion Ave., 155 62 Cholargos, Athens, Greece

Kema Certificates for Plastic Junction Box






ΕΛΟΤ


ΕΛΟΤ
TEST REPORT (CB/IECEE SCHEME)


ΕΛΟΤ



ΕΛΟΤ

ΕΚΘΕΣΗ ΔΟΚΙΜΩΝ (ΣΥΣΤΗΜΑ CB/IECEE)
TEST REPORT (CB/IECEE SCHEME)



ΕΛΟΤ

ΕΛΟΤ

TUV Certificates for load Counter MCCB



CERTIFICATE of Conformity

TÜVRheinland

Certificate No.: MK 69241826 0001

Test Report No.: 28213374 002

Certificate Holder: SEGA-M Company
Industrial Area A3'10th
Ramadan City
Egypt

Manufacturer: SEGA-M Company
Industrial Area A3'10th
Ramadan City
Egypt

Product: Distribution boards type FB

Identification: Type designaton:

	incoming MCCB: (busbar rating)	Number of outgoing circuits:
MFB-4250160-GE	FE 250 A	4
MFB-6250160-GE	FE 250 A	6
MFB-8250160-GE	FE 250 A	8
MFB-10250160-GE	FE 250 A	10
MFB-4400160-GE	FG 400 A	4
MFB-6400160-GE	FG 400 A	6
MFB-8400160-GE	FG 400 A	8
MFB-10400160-GE	FG 400 A	10

Type of outgoing MCCB:FD 16-160 A

Tested according to: EN 61439-2:2009

This certificate refers to the above mentioned product. This is to certify that the test sample is in conformity with the requirements stated above. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Certification Body

Date of issue:

Budapest, 2012.03.19

TÜV Rheinland InterCert Kft. – Product Certification Body — H-1132 Budapest, Váci út 48/A-B — www.tuv.hu

IT_07-G-Pa_4_0



GINDRE DUCHAVANY

INSPECTION CERTIFICATE 3.1 EN 10204	Date: 04/05/2020 Nr : RCF240885-0	
SEGA-M INDUSTRIAL AREA A3 . 10TH OF RAMADAN CITY EGYPTE	Our Order Nr : GD057442*2 - F530892	Order Qty : 1000 KG
	Your Order Nr: ORDER DATED 24/02/20	

CUETP HALF HARD TEMPER
COPPER PROFILE GD1975
PLAN : SPQ5100-5AA14.04
IN 1000MM-D = 22MM EN13605

EN 13600 Drawing Nr : SPQ5100-5AA14.04 Your Item Ref :	CUA1 H12 GD 1975 BA CW004A/CuA1/E-Cu57/C101/_/C11000

Parameters	Min	Max	Values	
SIZE GD1	39.8	40	39.9	mm
SIZE GD2	29.8	30	29.9	mm
SIZE GD3	10.86	11.14	11.02	mm
SIZE GD4	11	11.2	11.17	mm
CONDUCTIVITY	57		57.8	MS/m
HARDNESS HB 2.5/62.5	88	95	93.4	
WEIGHT CONTROLED (KG)			606.00	

GINDRE DUCHAVANY
31, Rue Gilbert
38630 PONT-DE-CHERUY

This certificate is generated automatically and valid without personnal sign
We hereby certify that the material described above complies with terms of the order contract

Certificat ISO 9001 AFNOR N° 2018/83340.1	Page: 1/1	Quality ASSURANCE D. GENILLON Rémy

31, Rue Gilbert - B.P.23 - 38221 PONT DE CHERUY FRANCE. Tél.: 04 72 49 09 00 FAX: 04 78 32 60 08 TELEX 370 871
S.A. au capital de 5 500 300 Euros - R.C. Lyon B 055 908 617 - SIRET 055 908 617 00074 - Code



شهادة اعتماد رقم(٢١/٠٢١٤٠٣)

ilac-MRA

المجلس الوطني للاعتماد

EGAC

جمهورية مصر العربية

المجلس الوطني للاعتماد (إيجاك)

يشهد بأن

معمل سيجا.ام

شركة سيجا.ام للمنتجات الكهربائية

(١٣) المنطقة الصناعية – مدينة العاشر من رمضان

محافظة الشرقية – مصر

قد حصل على اعتماد المجلس حيث تم تقييمه طبقاً للمواصفة الدولية

ISO/IEC 17025:2017

في قياس سمك طبقة الطلاء وقياس شدة الإضاءة وقياس كفاءة الطاقة للكشافات واللمبات
وتعيين درجة الحماية للكشافات واللوحات وتعيين درجة الحماية ضد الصدمات للأجهزة الكهربائية

الموضحة بالبيان المرفق رقم (٢١/٠٢١٤٠٣ب)

رقم إصدار المجال (٠١)

إصدار رقم (٠١): ١٢ يناير ٢٠٢٣ صالحة حتى: ١١ يناير ٢٠٢٧

شرط الحفاظ على التوافق مع المواصفات أعلاه والمتطلبات الخاصة بالمجلس

المعمل له الحق في إصدار تقارير/شهادات تحت مظلة المجلس الوطني للاعتماد طبقا لمجال الاعتماد المرفق

المجلس الوطني للاعتماد موقع على اتفاقية الاعتراف المتبادل مع منظمة التعاون الدولي لاعتماد المعامل (ILAC)

في مجال اعتماد معامل المعايرة والاختبار والتحاليل الطبية ومقدمي خدمة اختبارات الكفاءة الفنية وجهات التفتيش

مهندس/ أحمد سمير صالح

رئيس المجلس

وزير التجارة والصناعة

مهندس / هالي السوقي

المدير التنفيذي للمجلس



Accreditation Certificate No. (021403/1A)

EGAC

ilac-MRA

Arab Republic of Egypt

Egyptian Accreditation Council (EGAC)

Certifies that

SEGA.M Laboratory

SEGA.M Company for Electrical Products

Industrial Zone (A3) - 10th of Ramadan City
Sharkia Governorate - Egypt

Has been accredited by EGAC in compliance with the requirements of

ISO/IEC 17025:2017

In Measurement of Coating Thickness, Luminous Flux and Energy Efficiency of Lamps and Luminaries and the Degree of Protection for Luminaries and Enclosure and determination of Degree of Protection Against Impact for Electrical Devices

The scope of accreditation is described issue n the attached schedule No. (021403/1B)
Scope No. (01)

Issue No. (01): January 12, 2023 **Valid to: January 11, 2027**

Subject to continued compliance to the above standard and EGAC requirements

The Laboratory is accredited to issue reports/certificates under EGAC Accreditation According to the attached scope of accreditation

EGAC is an ILAC MRA Signatory in the Field of Calibration, Testing, Medical Labs, Proficiency Testing Providers and Inspection Bodies Accreditation

Eng. Hanie El Desouki
EGAC Executive Director

Eng. Ahmed Samir Saleh
Chairman of EGAC
Minister of Trade and Industry





Permanent operating license certificate with an advanced system



رخصة تشغيل دائمة بنظام السيل

م	نوع النشاط	كود النشاط
1	صنع ماكينات التوزيع والتحكم والمولدات الكهربائية	271630
2	صنع البطاريات والمجمعات من الكهربائية الأخرى	271370
3	صنع أسلاك وكابلات معدنية	271720
4	صنع لمبات وأجهزة إضاءة	272820
5	صناعة وتجليد الجلود	290230
6	صنع الأجهزة بجميع أنواعها	274810
7	صنع أجزاء معدنية عامة لأغراض محطة	259940
8	معالجة وطلي المعادن بالكهرباء عملية الكاثودية أو الصناعية	289210
9	صنع الكشافات بجميع أنواعها	274820
10	صنع مسبوكات الألومنيوم	243220





شهادة رقم: ٢٨٥٥٧
صادرة في: ٢٠٢٣/١٢/٠٦

شهادة استيراد
للخامات و مستلزمات الإنتاج و قطع الغيار للمعدات الرأسمالية
وفقاً لأحكام قانون الاستثمار

صالحة من ٢٠٢٣/١٢/٠٦ إلى ٢٠٢٤/١٢/٠٥

اسم الشركة : (سيجا ام - للمنتجات الكهربائية) SEGA.M ELECTRICAL PRODUCTS

الشكل القانوني : شركة مساهمة مصرية

قرار التأسيس رقم : ١٤٣٦ صادر بتاريخ : ٢٠٠١/٠٦/٠٥ بنظام الاستثمار الداخلي .

موقع ممارسة النشاط : القطعة (٢١ - ٧٥) المنطقة الصناعية أ٣ - بمساحه ٢٢٥٢٢٣,٨٢ م٢ مدينة العاشر من رمضان - محافظة الشرقية
فرع انتاجي:- قطعة ٢٣٨ المنطقة الجنوبية ٦ مليون م٢ - العاشر من رمضان -الشرقية.

سجل تجاري معدل رقم : ١٦٢٩٣٧ بتاريخ : ٢٠٢١/٠٣/٠٧

تسجيل ضريبي رقم : ٦٢٦-١٢٢-٧٢٤

تاريخ بدء الإنتاج : ٢٠٠٤/١١/١

وذلك في ضوء كل من الآتي:-

- غرضها المعتمد من الهيئة و الخاضع لأحكام قانون الاستثمار كما هو مدون في خلف تلك الشهادة.
- القواعد و الإجراءات و اللوائح المعمول بها لدى مصلحة الجمارك في هذا الشأن.

وقد تم إصدار هذه الشهادة تطبيقاً لأحكام قانون الاستثمار على أن تقع المسئولية كاملة عليها في حالة قيامها ببيع الخامات و مستلزمات الإنتاج و قطع الغيار للمعدات الرأسمالية اللازمة لها بحالتها الواردة عليها دون استخدامها في نشاطها المعتمد ودون أدنى مسئولية على الهيئة العامة للاستثمار و المناطق الحرة في هذا الشأن.

وهذه الشهادة صالحة للاستيراد عن طريق كافة الدوائر و المناطق الجمركية بجمهورية مصر العربية.
وعليها مراعاة التقدم للهيئة العامة للاستثمار والمناطق الحرة لتعديل هذه الشهادة في حالة تعديل البيانات.

المدير العام

الختم

رئيس الإدارة المركزية للخدمات

F-ISS/E-13-02



شهادة رقم: ٢٨٥٦٢
صادرة في: ٢٠٢٣/١٢/٠٧

شهادة تصدير
لمنتجات الشركات و المنشآت
وفقاً لأحكام قانون الاستثمار

صالحة من ٢٠٢٣/١٢/٠٦ إلى ٢٠٢٤/١٢/٠٥

اسم الشـــــركة : (سيجا ام - للمنتجات الكهربائيه) SEGA.M. ELECTRICAL PRODUCTS

الشكل القانونـــــي : شركة مساهمة مصرية

قرار التأسيس رقـــم : ١٤٣٦ صادر بتاريخ : ٢٠٠١/٠٦/٠٥ بنظام الاستثمار الداخلي .

موقع ممارسة النشاط : قطعة (٤١ - ٧٥) المنطقة الصناعية ٣ - بمساحه ٢٢٥٠٢٢٣,٨٢م٢ مدينة العاشر من رمضان - محافظة الشرقية .
فرع الناجي: قطعة ٢٣٨ المنطقة الجنوبية ٦ مليون م٢ - العاشر من رمضان -الشرقية

سجل تجاري معدل رقم : ١٩٢٩٣٧ بتاريخ : ٢٠٢١/٠٣/٠٧

لسجل ضريبـــي رقم : ٩٢٦-١٢٢-٧٢٤

تاريخ بدء الإنتـــــاج : ٢٠٠٤/١١/١٥

وذلك في ضوء كل من الآتي:-

- غرضها المعتمد من الهيئة و الخاضع لأحكام قانون الاستثمار كما هو مدون في خلف تلك الشهادة.
- القواعد و الإجراءات و اللوائح المعمول بها لدى مصلحة الجمارك في هذا الشأن.
- التعهد المقدم منها بأن المنتجات التي تقوم بتصديرها من إنتاجها فقط و تحت مسئوليتها دون أدنى مسئولية على الهيئة العامة للاستثمار و المناطق الحرة.

وهذه الشهادة صالحة للتصدير عن طريق كافة الدوائر و المناطق الجمركية بجمهورية مصر العربية.
وعليها مراعاة التقدم للهيئة العامة للاستثمار والمناطق الحرة لتعديل هذه الشهادة في حالة تعديل البيانات.

المدير العام

الختم

رئيس الإدارة المركزية للخدمات

F-ISSIE-13-01

Egypian National Institute for Calibration certificete



Certificate

of

Participation in Proficiency Testing

Measurements of AC Power for Electrical Street Lights

NPTL-DPSL-1-22

Organized by

National Proficiency Testing Laboratory - NPTL

National Institute of Standards -NIS

Participant Lab

SEGA-M Laboratory

SEGA-M for Electrical Products, Egypt

Lab.Code:1

The lab has Participated in This Proficiency Testing Scheme

NPTL Head

Prof. Dr. Hala Abdel Moged

NIS President

Prof. Dr. Noha E. Khaled

PTL NIS



Certificate

of

Participation in Proficiency Testing

Measuring Luminous Flux of Lamps

NPTL-MLFL-1-20

Organized by

National Proficiency Testing Laboratory - NPTL

National Institute of Standards -NIS

Participant Lab

SEGA-M Company for Electrical Products, Egypt

Lab.Code:1

The lab has Participated in This Proficiency Testing Scheme

NPTL Head

Assoc. Prof. Dr. Hala Abdel Moged

NIS President

Prof. Dr. Noha E. Khaled

PTL NIS



Certificate

of

Participation in Proficiency Testing

Degrees of Protection Provided by Enclosures for LED Luminaire against external mechanical impacts (IK 08)

NPTL-DPIK-1-22

Organized by

National Proficiency Testing Laboratory - NPTL
National Institute of Standards -NIS

Participant Lab

SEGA-M Laboratory

SEGA-M for Electrical Products, Egypt

Lab. Code:1

The lab has Participated in This Proficiency Testing Scheme

NPTL Head

Prof. Dr. Hala Abdel Moguod

NIS President

Prof. Dr. Noha E. Khalid



Certificate

of

Participation in Proficiency Testing

Coating Thickness Measurements (Ferrous Type)

NPTL-CTM-2-22

Organized by

National Proficiency Testing Laboratory - NPTL
National Institute of Standards -NIS

Participant Lab

SEGA-M Laboratory

SEGA-M for Electrical Products, Egypt

Lab. Code:1

The lab has Participated in This Proficiency Testing Scheme

NPTL Head

Prof. Dr. Hala Abdel Moguod

NIS President

Prof. Dr. Noha E. Khalid

Egypian National Institute for Calibration certificete



Certificate

of

Participation in Proficiency Testing

Classifying the Degree of Protection Provided by Enclosures (IP 65) for LED Luminaire

NPTL-ECIP-1-22

Organized by

National Proficiency Testing Laboratory - NPTL

National Institute of Standards -NIS

Participant Lab

SEGA-M Laboratory

SEGA-M for Electrical Products, Egypt

Lab. Code:1

The lab has Participated in This Proficiency Testing Scheme

This Scheme was organized according to the requirements of ISO/IEC 17043:2010

For more details, see the attached report No.1, Code NPTL-ECIP-1-22

NPTL Head

Prof. Dr. Hala Abdel Megeed

NIS President

Prof. Dr. Noha E. Khalid



Certificate

of Participation in Proficiency Testing

Degree of Protection Provided by Enclosure Test (IP 54)

NPTL-IP54-1-18

Organized by

National Proficiency Testing Laboratory - NPTL

National Institute of Standards -NIS

Participant Lab

SEGA-M Company for Electrical Products, Egypt

Lab. Code: 1

The lab has Participated in This Proficiency Testing Scheme

This Scheme was organized according to the requirements of ISO/IEC 17043:2010

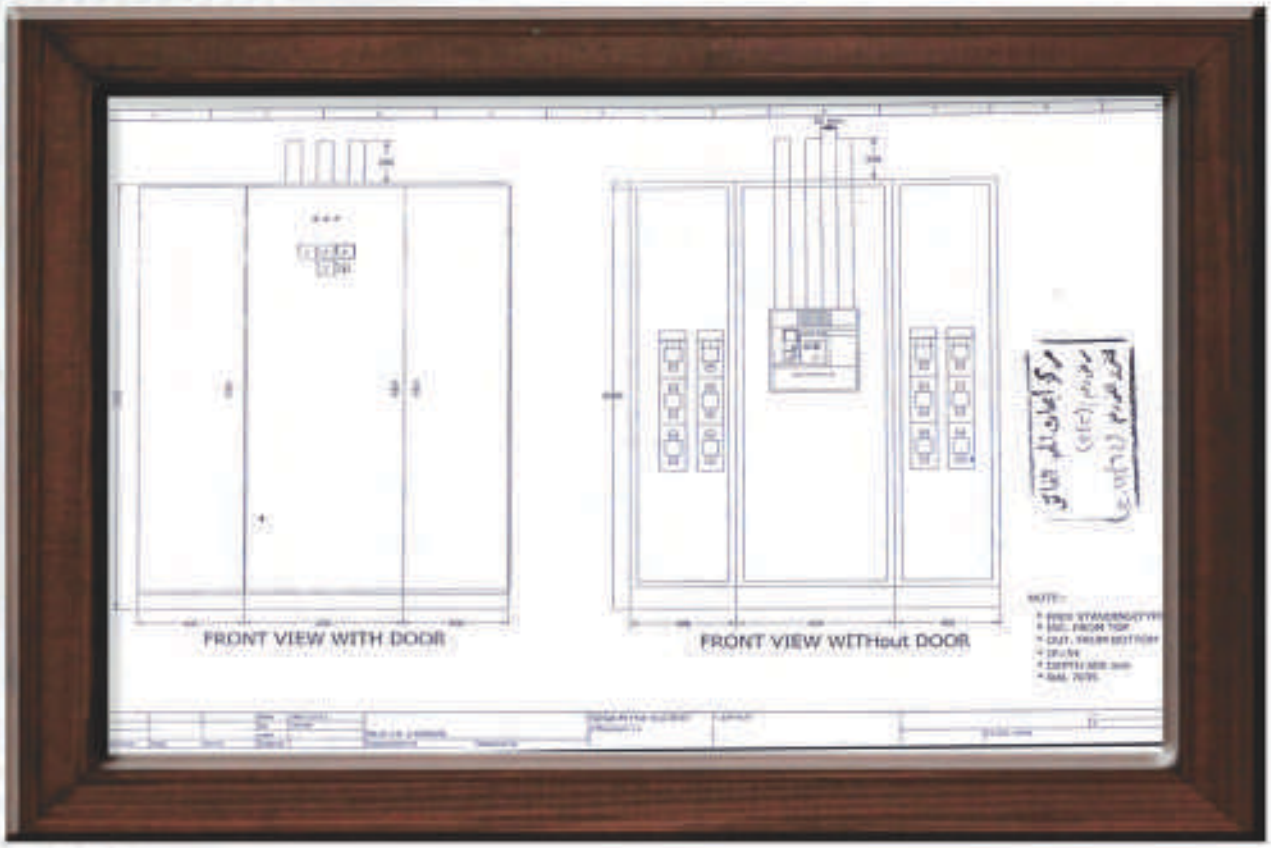
For more details, see the attached report No.1, Code NPTL-IP54-1-18

NPTL Head

Assoc. Prof. Dr. Hala Abd El Megeed

NIS President

Prof. Dr. Mohamed A. Amer


FRONT VIEW WITH DOOR
FRONT VIEW WITHout DOOR







Ministry of Electricity & Energy
Egyptian Electricity Holding Company
Chairman

وزارة الكهرباء والطاقة
الشركة القابضة لكهرباء مصر
رئيس مجلس الإدارة

السادة / الشركة العربية المصرية للصناعات الكهربائية
٢٠ ش المتحف الزراعي – العجوزة – الجيزة – ف / ٣٧٦٠٦٤٤٦

تحية طيبة ... و بعد ...

بالإشارة إلى كتاب سيادتكم بتاريخ ٢٠١٣/٦/١٢ بشأن طلب إعتماد سكينة الفيوز الثلاثية " fuse switch " جهد منخفض ٥٠٠ فولت سعة ٦٣٠ أمبير طراز NH3 صناعة شركة Pronutec الأسبانية.

أتشرف بالإحاطة بأن اللجنة المختصة بمراجعة المواصفات الفنية وتقارير الاختبارات ومعاينة عينة المهمة المقدمة قد أعدت تقريرها في هذا الخصوص وقد إنتهى إلى ما يلي :-

- قبول سكينة الفيوز الثلاثية جهد منخفض ٥٠٠ فولت – سعة ٦٣٠ أمبير طراز NH3 من الفئة AC- 22B صناعة شركة Pronutec الأسبانية.
- ضرورة إلتزام الشركة العربية المصرية للصناعات الكهربائية بتحقيق كافة المتطلبات والمواصفات الفنية التي تطرحها شركات الكهرباء التابعة.

وتفضلوا بقبول فائق الاحترام ...

رئيس مجلس الإدارة

" مهندس / جابر دسوقي مصطفى "



CERTIFICATE OF APPROVAL

AWARDED TO

شركة سيجا إم

تتشرف اللجنة المشكلة من الشركة القابضة لكهرباء مصر بعد مراجعة البيانات الفنية وتقارير الاختبارات النوعية للوحة المقدمة ومعاينة خطوط الإنتاج ومعمل الاختبارات الروتينية بالمصنع (المصورة) قد أعدت تقريرها في هذا الخصوص والذي انتهى إلى :-

قبول لوحة البعد المنخفض حتى معدة ٤٠٠٠ أمبير طراز (SG-1) - إنتاج شركة سيجا إم - على أن تكون جميع المكونات الداخلية للوحة (قواطع - موتجل فيوز - .....) من الموزعات مازية الاعتماد من الشركة التابعة لكهرباء مصر

على أن تلتزم شركة سيجا إم بتحقيق كافة المتطلبات الفنية بكراسة الشروط والمواصفات التي تطرحها شركة الكهرباء التابعة.

هذا الاعتماد ساري لمدة ثلاث سنوات من تاريخه

مع مراعاة ضرورة تحديث هذا الخطاب في حالة تعديل المواصفات القياسية العالمية IEC أو المواصفات الفنية الموحدة للشركة القابضة لكهرباء مصر ' ذات الصلة '

مقرر اللجنة

معتصم أسامة إبراهيم محمد

رئيس اللجنة

معتصم / الحسيني الحسيني الفار







CERTIFICATE OF APPROVAL

AWARDED TO

سيجا إم للصناعات الكهربائية

تتشرف اللجنة المشكلة من الشركة القابضة لكهرباء مصر بعد مراجعة البيانات الفنية وتقارير الاختبارات النوعية المقدمة ومعاينة خطوط الإنتاج ومعمل الاختبارات الروتينية بالمصنع (المصورة) قد أعدت تقريرها في هذا الخصوص والذي انتهى إلى قبول:

خلية جهد متوسط ١٢ ك.ف. سعة ١٢٥٠ أمبير طراز SIMOPRIME - إنتاج سيجا إم للصناعات الكهربائية مزودة بقاطع فراغي طراز 3AE5 سعة ١٢٥٠ أمبير – ذات سعة ديناميكية ٢٥ ك.أ./ ٣ ثانية عند ٣١,٥ ك.أ./ ٣ ثانية صناعة شركة سيمنز.

مع الالتزام بالرسومات التصميمية للخلايا التي اجتازت الاختبارات النوعية وأن يكون القاطع بغلاف معدني

على أن تلتزم سيجا إم للصناعات الكهربائية بتحقيق كافة المتطلبات الفنية بكراسة الشروط والمواصفات التي تطرحها شركة الكهرباء التابعة.

مع مراعاة ضرورة تحديث هذا الخطاب في حالة تعديل المواصفات القياسية العالمية "IEC" أو المواصفات الفنية الموحدة للشركة القابضة لكهرباء مصر " ذات الصلة ".

هذا الاعتماد ساري لمدة ثلاث سنوات من تاريخه

رئيس اللجنة

مهندس / بدر الدين حلمي عبدالرازق







جمهورية مصر العربية
وزارة التجارة والصناعة

غرفة الصناعات الهندسية
Chamber of Engineering Industries

اتحاد الصناعات المصرية
Federation of Egyptian Industries

مجانا

شهادة

اسم المنشأة : شركة سيجا لم للمنتجات الكهربائية SEGA.M.ELECTRICAL PRODUCTS

نشاط المنشأة : صناعة لوحات توزيع كهربائية ضغط منخفض و كشافات اضاءة وادوات كهربائية وأعمدة انارة بالطاقة الشمسية وحدات توليد الطاقة بالخلايا الشمسية ؛ لوحات التوزيع الكهربائية بالمفاتيح والقواطع

عنوان المنشأة : المنطقة الصناعية A3 قطعة رقم 41 ، 75 مدينة العاشر من رمضان

رقم الملف : 248

حررت هذه الشهادة طبقا للقانون رقم ٧٠ لسنة ٢٠١٩
وقرار رئيس الوزراء رقم ٢٢٤٩ لسنة ٢٠١٩ وبناء على طلب المنشأة .

تنتهى فى : 2024/12/31

المدير التنفيذى

03586

المقر الرئيسى : القاهرة ١١٥ كورنيش النيل بجوار هيئة الكتاب صندوق بريد (٦) السبتية رقم بريدي ١١٢٦٢ ت: ٢٥٧٧٨٠٦٠ ٠٢ فاكس: ٢٥٣٧٠٨٨٩ ٠٢
فرع شريف : ١٢ ش شريف - الدور الخامس - وسط البلد ت: ٣٩٩٢١٣٢٥ ف: ٣٩٩١٨٠٩٩ موبايل: ٠١٠٢٢٢٠٣٩٤٦
فرع الإسكندرية : ٨ شارع اللواء محمود حمدي الخطاب متفرع من شارع فؤاد امام مدرسة القومية ت: ٠٣٣٩٠٠٤٤٢ موبايل: ٠١٠١٩١١١٨٨١
فرع [illegible] : [illegible]
فرع العاشر : المنطقة الأولى - عمارة رقم ٢ - اليمى الأول - أمام الإدارة التعليمية - العاشر من رمضان ت: ١٣٦١٣٦٩ ٠١٥ موبايل: ٠١٠٠٠٨٢٢٥٠٢
E-mail: info@eriegypt.org Web: www.eriegypt.com

Certificate of meeting the percentage of the Egyptian component.
Ministry of Commerce and Industry



وزارة التجارة والصناعة
اتحاد الصناعات المصرية

رقم مسلسل Tand-3511

شهادة
استيفاء نسبة المكون المصري

اسم النشاط:- سيجما أم لمنتجات كهربائية
العنوان:- قطعة رقم 41 - 75 - المنطقة الصناعية (3 - العاشر من رمضان
رقم القيد في السجل الصناعي:- 09180427010279B4

نوع النشاط:- الصناعات الهندسية
اسم المنتج الصناعي:- تصنيع وتجميع لوحات جهد متوسط 12 ، 24 ك فولت
نسبة المكون الصناعي المصري المعتمدة من هيئة التنمية الصناعية:- 60.59 %
يشهد اتحاد الصناعات المصرية ان المنتج المصري: تصنيع وتجميع لوحات جهد متوسط 12 ، 24 ك فولت هي 60.59 % ومستوفي نسبة المكون الصناعي المصري وفقا لاحكام القانون رقم (5) لسنة 2015 بشأن تفضيل المنتجات المصرية في العقود الحكومية وتستخدم للتقدم للمناقصات والممارسات الحكومية

تاريخ اصدار الشهادة 16-07-2023 تاريخ انتهاء سريان الشهادة 15-07-2024

المدير التنفيذي - اتحاد الصناعات المصرية
الأستاذ / خالد عبد العظيم



وزارة التجارة والصناعة
اتحاد الصناعات المصرية

رقم مسلسل Tand-0691

شهادة
استيفاء نسبة المكون المصري

اسم النشاط:- سيجما أم لمنتجات كهربائية
العنوان:- قطعة رقم 41 - 75 - المنطقة الصناعية (3 - العاشر من رمضان
رقم القيد في السجل الصناعي:- 09180427010279B4

نوع النشاط:- الصناعات الهندسية
اسم المنتج الصناعي:- كابلات - لكابلات كهرباء
نسبة المكون الصناعي المصري المعتمدة من هيئة التنمية الصناعية:- 64.05 %
يشهد اتحاد الصناعات المصرية ان المنتج المصري: كابلات - لكابلات كهرباء هي 64.05 % ومستوفي نسبة المكون الصناعي المصري وفقا لاحكام القانون رقم (5) لسنة 2015 بشأن تفضيل المنتجات المصرية في العقود الحكومية واستخدم للتقدم للمناقصات والممارسات الحكومية

تاريخ اصدار الشهادة 17-08-2023 تاريخ انتهاء سريان الشهادة 16-08-2024

المدير التنفيذي - اتحاد الصناعات المصرية
الأستاذ / خالد عبد العظيم

Certificate of meeting the percentage of the Egyptian component.
Ministry of Commerce and Industry



وزارة التجارة والصناعة
اتحاد الصناعات المصرية

رقم مسلسل [Tend-3373]

شهادة
استيفاء نسبة المكون المصري

اسم المنشأة:- سيجا أم لمنتجات كهربائية
العنوان:- قطعة رقم 41 - 75 - المنطقة الصناعية أ 3 - العاشر من رمضان
رقم القيد في السجل الصناعي 31340
نوع النشاط:- الهندسية
اسم المنتج الصناعي :- تصنيع وتجميع لوحات توزيع ضغط منخفض للأغراض الصناعية حتى 4000 امبير لمحطات المياه والصرف الصحي وشركات البترول وما
نسبة المكون الصناعي المصري المعتمدة من هيئة التنمية الصناعية 49.70%
يشهد اتحاد الصناعات المصرية ان المنتج الصناع ، تصنيع وتجميع لوحات توزيع ضغط منخفض للأغراض الصناعية حتى 4000 امبير لمحطات
مستوفى نسبة المكون الصناعي المصري وفقاً لأحكام القانون رقم (5) لسنة 2015 بشأن تفضيل المنتجات المصرية في العقود الحكومية

تاريخ إصدار الشهادة 10-08-2020 تاريخ إنهاء سريان الشهادة 09-08-2021

خاتم شعار الجمهورية

المدير التنفيذي-اتحاد الصناعات المصري
الأسم:- د : خالد عبد العظيم
التوقيع :-



وزارة التجارة والصناعة
اتحاد الصناعات المصرية

رقم مسلسل [Tend-3368]

شهادة
استيفاء نسبة المكون المصري

اسم المنشأة:- سيجا أم لمنتجات كهربائية
العنوان:- قطعة رقم 41 - 75 - المنطقة الصناعية أ 3 - العاشر من رمضان
رقم القيد في السجل الصناعي 31340
نوع النشاط:- الهندسية
اسم المنتج الصناعي :- مسبوكات الومنيوم متنوعه بالحفر (كشاف شوارع لبد قدرات (50 ، 100 ، 150 ، 200 ، 300 ، 400) وات
نسبة المكون الصناعي المصري المعتمدة من هيئة التنمية الصناعية 76.66%
يشهد اتحاد الصناعات المصرية ان المنتج الصناع ، مسبوكات الومنيوم متنوعه بالحفر (كشاف شوارع لبد قدرات (50 ، 100 ، 150 ، 200 ،
مستوفى نسبة المكون الصناعي المصري وفقاً لأحكام القانون رقم (5) لسنة 2015 بشأن تفضيل المنتجات المصرية في العقود الحكومية

تاريخ إصدار الشهادة 29-07-2020 تاريخ إنهاء سريان الشهادة 28-07-2021

خاتم شعار الجمهورية

المدير التنفيذي-اتحاد الصناعات المصري
الأسم:- د : خالد عبد العظيم
التوقيع :-



Ministry of Electricity & Renewable Energy
New and Renewable Energy Authority
(NREA)
Dr.Ibrahim Aboulnaga St.,Ext. of Abbas ElAkkad St.
NASR CITY, CAIRO, EGYPT

وزارة الكهرباء والطاقة المتجددة
هيئة تنمية واستخدام الطاقة الجديدة والمتجددة
شارع د.إبراهيم أبو النجا – إمتداد شارع عباس العقاد
حي الزهور – مدينة نصر

شهادة تجديد تأهيل شركة سيجا ام منتجات كهربائية

رقم كودى: (٥) تاريخ الإصدار: ٢٠٢١/٠١/١٤

تشهد هيئة تنمية واستخدام الطاقة الجديدة والمتجددة بأن شركة سيجا ام منتجات كهربائية سجل تجاري رقم (٨٣٣) مؤهلة للعمل في مجال توريد وتركيب وتشغيل وصيانة وربط أنظمة الخلايا الشمسية حتي قدرة ٥٠٠ك.و والمرتبطة بالشبكة الكهربية العامة

الاعمال التى تقدمها الشركة لعملائها :-

١- تقديم عروض تتضمن المواصفات الفنية والقياسية لمكونات نظام الخلايا الشمسية .
٢- إبرام العقد بين العميل والشركة.
٣- الحصول على الموافقات اللازمة من شركة توزيع الكهرباء المختصة، وذلك طبقا للمتطلبات الفنية والقواعد التنظيمية الصادرة
٤- تنفيذ أعمال التركيبات المطلوبة طبقا للقواعد المهنية والمعايير والتوابع التنظيمية المطبقة في هذا الشأن.
٥- تشغيل واختبار جميع المعدات وتسليم لنظم الخلايا الشمسية في حضور كل من العميل ومندوب شركة التوزيع مع تسليم العميل كافة الرسومات والكتالوجات الخاصة بالمعدات بالإضافة إلى كتالوجات الصيانة موضحاً بها شرح وافى لأعمال الصيانة الدورية والوقائية، وأيضا جميع الشرات والمستندات المتعلقة بشروط ضمان وصيانة المعدات والمحافظة عليها.
٦- وضع تعليمات الأمان على المعدات والتجهيزات مع تدريب العاملين على إجراءات التدخل وتأمين نظام الخلايا الشمسية .
٧- تقديم مشروع عقد صيانة فيما بعد إنتهاء فترة الضمان لكلية نظام الخلايا الشمسية للعميل في حالة طلبه ذلك.
٨- القيام بالإصلاحات الضرورية طبقا لشروط العقد المبرم بين العميل والشركة.

- مدة التأهيل ثلاث سنوات سارية من ٢٠٢١/٠١/١٤ الى ٢٠٢٤/٠١/١٣
- للهيئة الحق في إلغاء هذه الشهادة إذا حدثت مخالفات تتفق وما جاء في البند الخامس الوارد في اشتراطات التأهيل .

وهذه شهادة من الهيئة بذلك دون أي مسئولية عليها قبل الغير

الرئيس التنفيذي

دكتور مهندس / محمد مصطفى الشناط

مرفقات
- بيان المشروعات التي قامت الشركة بتنفيذها (إن وجدت)
- بيان معتمد بالمهندسين والفنيين العاملين بالشركة مع ذكر المشروعات التي شاركوا فيها
- بيان معتمد بمعدات أنظمة الخلايا الشمسية التي تستخدمها الشركة

P.O.Box :4544 Masakin Dobat Elsaff
El-hay El-Sades, Nasr City
FAX : (202) 22717173
TEL : (202) 22711575

ص.ب : ٤٥٤٤ مكتب بريد مساكن ضباط الصف
الحي السادس – مدينة نصر – القاهرة
فاكس : ٢٢٧١٧١٧٣ (٢٠٢)
تليفون : ٢٢٧١١٥٧٥ (٢٠٢)

Notes



SIVACON
Technology Partner
SIEMENS

SIMOPRIME
Technology Partner
SIEMENS

Factories
Industrial Area A3 -10th Ramadan City
(+2) 0554 332080 - (+2) 0554 332087
(+2) 0554 332072 - (+2) 0554 332082
(+2) 0554 332067
93 - 10th of Ramadan City
(+2) 0100 32 000 63
sega-m@sega-m.com

Commercial Division
87 Abou Bakr Al - Seddik St
Safir Square, Heliopolis
(+202) 24183122 - (+202) 24183144
(+202) 24185022
Tele Sales (+2) 010 650 30 490
sales@sega-m.com
marketing@sega-m.com

Commercial Division (Lighting)
Nasr City branch Cairo Al-Nuzha investment project in Ard Al-Golf area Building No. 6 Office No. 3-2-1
(+202) 24181878
sega-m@sega-m.com
Sales.lighting@sega_m.com
(monaqsat@sega-m.com)

Facebook Website
www.sega-m.com