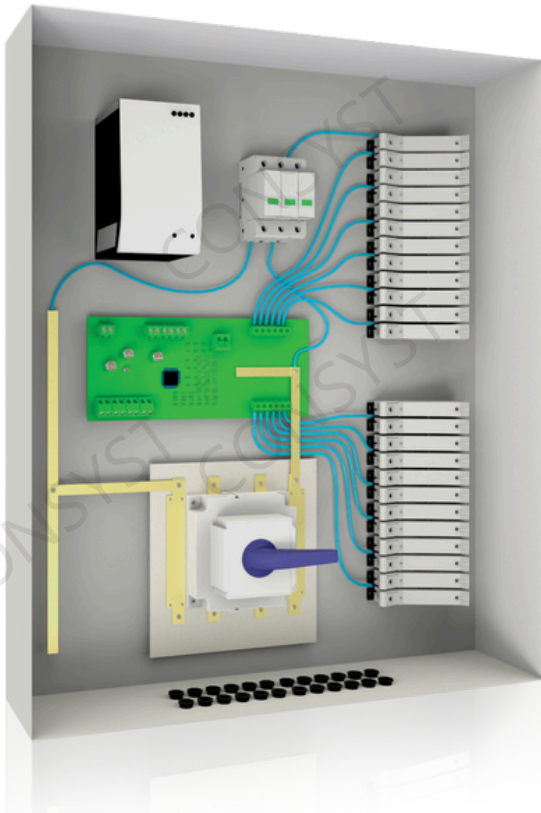


DC String Combiner Boxes (SCB) with optional String level monitoring for Solar PV Power plants

DC String combiner boxes providing protection and optional performance monitoring for 1000/1500 VDC applications.

Additional optional features such as Bus voltage sensors, digital and analog inputs, onboard temperature sensors etc.

Current reading accuracy better than 0.15%, current reading precision of 0.5% and extended operation range upto +70°C.



Easy-Installation

- Capability to connect the DC cables from PV modules in MC4 termination at the box or M16 cable glanding at the fuses.
- 2 DC output cables terminated at the isolator through PG40 glands.

Design Features

- Durable FRP/PC enclosure to prevent the system from corrosion.
- Power production tracking, detection of failure and aging of PV modules reduces OpEx.
- Well equipped for safety with no compromise on quality and reliability.

Flexibility

- The solution fits for all PV systems irrespective of scale/type of the PV plant.
- Product with and without string current monitoring option.
- Ranges for different number of string configurations. Field weather sensors can be easily connected to the box without using any additional devices/ components.
- Self powering feature without any additional power supply.

Technical Specifications

Device Name	Electrical	With Monitoring				Without Monitoring
		SMB-8	SMB-12	SMB-16	SMB-24	SCB-8/12/16/24
Specifications						
Number of Inputs	Rated DC	8	12	16	24	8/12/16/24
Voltage		1000/1500 VDC				
Max Current per Measuring Channel		25A	25A	25A	25A	25A
Maximum DC output		80A	120A	160A	240A	400A (Max)
Power Supply (By Internal DC-DC Converter)		24 VDC				-
Environmental Specifications						
Ambient Temperature (SMU)		from -10 to +70 Deg C				
Working Atmosphere		Without corrosive gas				
Humidity		up to 95%				
Features						
Measuring parameters		Input current, string voltage, onboard temp, SPD status, Disconnecter Status				-
Power consumption		<3 W				-
DC Input overcurrent protection		2+ -/ 1+ Fused protection				
DC overvoltage protection		Surge protector, 1000/ 1500 VDC, type 2				
Measuring accuracy		Better than 0.15 %				-
Digital Inputs		2				-
Analog Input		1PT 100				-
Communication Interface		Modbus RS 485/ Wireless option (Model SMB-S)				-
Input DC Cable entry		PG16 Glands termination at fuse				-
Output DC Cable Entry		PG40 Gland with ring type termination				-
Features						
Material		FRP/PC/ABS				-
Protection		IP65				-
Dimension(mm)		600x600x170	500x600x170	500x760x250	800x800x250	Variable as per no. of strings
Door type		Hinged, Opaque				

*Note: Customized options are available. The Technical details are subject to change.