















# Solar String Combiner Box - SMU

( 50 KWp - 250 KWp )



Monitor, Manage, Control and Maintain  
Your Power Plants

## Features

-  IP 65/66 Protected
-  Short Circuit & Overload Protected
-  Over Voltage Protected (Y-PV)
-  No Air Condensation
-  Tinned Cu Wired With FBXL - XLPO insulation & UV resistant
-  Tested Wire Harnessing to Ensure High Conductivity
-  Easy to Install & Service
-  Energy Efficiency
-  Designed for Reliability & Safety
-  Higher Return on Investment
-  Increase Uptime
-  Reliable in Extreme Conditions
-  Stabilizer Your Network
-  Designed for 25 Years Life Time



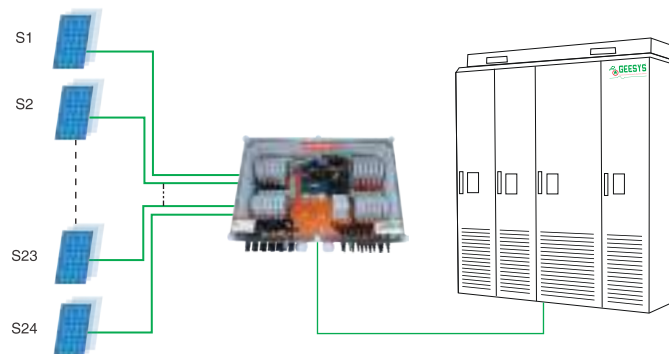
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## Technical Specifications

Models	OD101-M	OD102-M
Rated Voltage	1000 VDC	
Rated Insulation Voltage	4KV	
<b>Input</b>		
No of DC Inputs	8 - 32	
+Ve Inputs	15/30A (10x38) gPV Fuse	
-Ve Inputs	15/30A (10x38) gPV Fuse	15/30A Tinned Copper Bus
Max Current in Isc	15 / 30A	
Max Current in Imp	10 / 20A	
Conductor Size, mm <sup>2</sup>	4-6 mm <sup>2</sup>	
Cable Entry	MC4 Connectors	
<b>Output</b>		
No of DC Outputs	1	
DC Isolation	Integrated	
Max Current in A	200...630A	
Conductor Size, mm2	1.2 x Max. Current, Tinned Copper Bus	
Cable Clamping Area	16 - 28mm	
Cable Entry	Polyamide/Metal Glands	
<b>Protections</b>		
DC Overvoltage Protection	SPD, Type-1+2, 50kA, Y	
Grounding Connection	Direct connection to SPD max. 16mm <sup>2</sup>	
Cable Entry	(6-13)mm, Polyamide Gland	
<b>String Monitoring</b>		
Max Current per String	4 Multiples, Max. 24 Channel Hall Effect CT, 20A	
Current Measurement	-30...+30A, Offset Current : $\leq \pm 0.1$ , Accuracy : 1% FSD	
Voltage Measurement	1 Channel (300-1000V DC), Accuracy $\pm 20C$ for full scales	
Internal Temperature Measurement	Type : NTC, Range : (40-100) <sup>o</sup> C, Accuracy $\pm 2^o$ C for full scales	
Data Communication (Isolated)	RS 485 Modbus RTU Protocol, 2.5KV Isolation, Half Duplex	
Communication Baud Rate	2400/4800/9600/19200/38400 bps	
I/O's	DI:2, DO:1; AI:2; Temp Input: 1 RTD PT100 3 Wire	
Auxiliary Power Supply	220V AC/150-1000V DC	
<b>General</b>		
Ingress Protection	IP65/66	
Enclosure Type	PC/FRP, Opaque Cover*	
Structure Mounting	Yes	
Bus Bar	Tinned Copper Bus*	
Operating Conditions	Temp " -20 to +60°C; RH : 0-95% Non-condensing	
Types of Protections	Short Circuit, Overload & Over Voltage	
Rated Imp. with Stand Voltage	8KV DC	
Electrical Insulation	Totally Insulated	
UV Resistance	Yes	
Compliance Standards	UTE C 15-712-1, IEC61439-2, 60364, 60947-3, 60364-7-712, 61439-1, UL 98A	
Design Life	25 Years +	

\*Arc Fault Protection to Prevent Major Fire Accident at Your Power Plant.



Source of Complete Solar BoS Components

\*Tailor Made Products are available

Due to constant product modifications, GEESYS Technologies have the rights to amend the above information / Specification without prior notice.

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