



SST2M 5KW – 30KW



5KW/6KW/8KW/10KW/12KW/15KW/18KW/20KW/25KW/30KW

Three-Phase Multi MPPT



Optimal Power

- 98.1% Max. Efficiency
- 15A PV input current per string, 1-2 MPPT trackers



Strong Load

- 180V Start-up Voltage, longer working hours with low start-up voltage



Convenient Installation & Operation

- Plug & Play terminals for easy wiring
- OLED display and App for setting and data management



Flexible Design & Use

- IP66 for indoor and outdoor Installation
- Compact size and elegant appearance



BIS Approved



IEC Approved

MODEL	Three Phase Inverters - 2 MPPT (SST2M Model)											
SSS 2M	4kW	5kW	6kW	7kW	8kW	10kW	12kW	15kW	18kW	20kW	25kW	30kW
DC Parameters												
Max DC Power	5200W	6500W	7800W	9100W	10400W	13000W	15600W	19500W	23400W	26000W	32500W	39000W
Max DC Voltage	1100V*											
Startup Voltage Range (DC)	180V											
Operating Voltage Range (DC)	160V-950V*											
Rated Voltage DC	620V*											
Max Permissible DC Current / MPPT	15A+15A						15A+15A+30A			15A+15A+30A		
Max MPPT Short Circuit Current (ISC)	20A+20A						20A+20A+40A			20A+20A+40A		
No. of MPPT	2						3			3		
No. of Strings per MPPT	1+1						1+1+2			1+1+2		
DC Connection Type	MC 4 Connector											
AC Parameters												
Nominal AC Output Power	4000W	5000W	6000W	7000W	8000W	10000W	12000W	15000W	18000W	20000W	25000W	30000W
Rated Output Current	5.8A/Phase	7.2A/ Phase	8.7A/Phase	10A/Phase	11.5A/Phase	14.4A/Phase	17.3A/Phase	21.7A/Phase	26A/Phase	29A/Phase	36A/Phase	43A/Phase
Max Output Current	6.5A/Phase	8A/Phase	10A/Phase	11A/Phase	13A/Phase	16A/Phase	19A/Phase	24A/Phase	29A/Phase	32A/Phase	40A/phase	48A/Phase
Rated Voltage	415-430V -440V											
Operating Voltage Range	330-470V Variable											
Operating Frequency Range	45-55Hz Variable											
AC Connection Configuration	3P+N+PE											
Power Factor	0.8leading ~0.8lagging											
I THD	<2.3% @ Rated Output Power											
Self Consumption (Night)	<0.2W											
DC Current Injection	<0.5%											
Efficiency												
Peak Efficiency	98.30%	98.30%	98.30%	98.30%	98.30%	98.30%	98.30%	98.30%	98.30%	98.30%	98.30%	98.30%
Euro Efficiency	97.60%	97.60%	97.60%	97.60%	97.60%	97.80%	97.80%	97.80%	98.00%	98.00%	98.00%	98.00%
MPPT Efficiency	99.10%	99.10%	99.10%	99.10%	99.10%	99.10%	99.10%	99.10%	99.10%	99.10%	99.10%	99.10%
Features												
Display Type (LED/LCD)	OLED Display with LED Indicators											
Communication Port	RS 485, WIFI / GSM / LAN (Optional)											
Anti-PID Feature	Optional											
DC-AC Conversion Topology	High Frequency - Transformerless											
Power Switch DC Side	Optional											
Built in DC SPD Type	Type II SPD + GDT											
Built in AC SPD Type	Type II SPD + GDT											
Protections												
Ground Fault Protection	Integrated											
Over Temperature Protection	Integrated											
Residual Current Protection	Integrated											
DC Reverse Polarity Protection	Integrated											
Anti-Islanding Protection	Integrated											
Output Over V / I Protection	Integrated											
Insulation Resistance Protection	Integrated											
Output Short Circuit Protection	Integrated											
Overload Protection	Integrated											
Ambient Conditions												
Operating Temperature Range	(-) 30 ~ 60°C											
Protection Level (IP)	IP66											
Operatinging Elevation / Altitude	≤4000m											
Cooling Method	Natural Convection + Smart Fan											
Relative Humidity	0 ~ 100 %											
Noice level dB	<30 dB											
Dimensions	465 x 335 x 200 mm											
Weight	19KG						21KG			24KG		
Warranty	8 Years Standard Warranty											
Certificates	IS 16169, IS 16221-1/2, IEC 61727, IEC 62116, IEC 61000-1-2-3-4, IEC 62109-1/-2, IEC 61683:1999, IEC 60068-2 (1,2,14,30)											

KEY FEATURES



Thin Films & Super capacitors for long hours booster Circuitry operation



RCD / GFCI / ELCB enabled for earth leakage protection



Fuse less and Fan less Design



TNPC 3-Level Technology for Three Phase Inverters



Insulation Test for DC/AC around 3000VDC / 1 Min



Defeats Shading Effect by Global Peak Tracker Technology



Reduction of Balance of System cost (BOS) due to Integrated String Combiner Functionality.



Up to 20A PV input current and 30A MPPT current compatible with most high-power PV panels



SiC Mosfet power device introduced into inverter improves inverter conversion efficiency of up to 98.6% which offers higher power generation.



Three Phase Protection Category: Type II + III SPD + GDT



RLC filtering Circuit for clean & green sinewave generation



Multi function OLED display, Easy operation and configuration



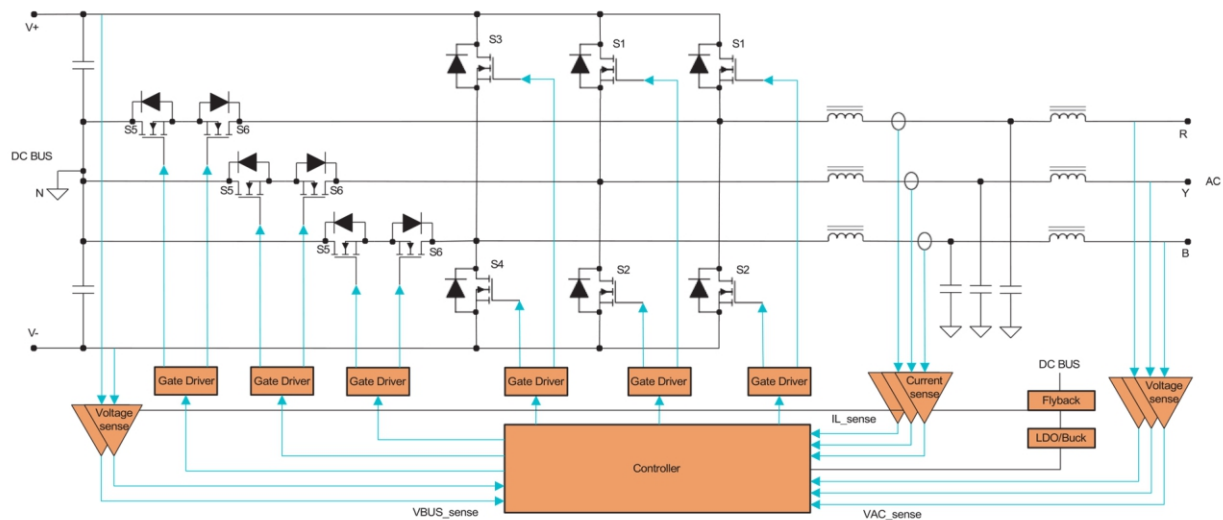
24H smart loads consumption monitoring export limit available



Rounded-edge structure meets the ergonomic design, elegant and friendly to install & carry



Aluminium alloy die-casting shell + AL heat sink offers up to 200 W/(m.K) thermal conductivity



T-NPC 3 Level Topology

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