SUNSATHI

Solar Inverters for a Brighter Tomorrow

भारत का सब से ज्यादा बिजली उत्पादन करने वाला Solar Inverter



HIGHER GENERATION | RELIABLE PERFORMANCE | SMART TECHNOLOGY | CLEANER TOMORROW

Single Phase On-Grid Inverter Datasheets

MODEL	Single Phase Inverters										
	1 MMPT (SS1M Model)									2 MPPT	
	1kW	2kW	3.0kW	3.3kW	3.6kW	4kW	5kW	5.4kW	6kW	5.5kW	6kW
DC Parameters											
Max DC Power	1100W	2200W	3300W	3630W	3960W	4400W	5500W	5940W	6600W	6600W	7200W
Max DC Voltage	500V*						600V*			600V*	
Startup Voltage Range (DC)	**50V**						**70V**			**70V**	
Operating Voltage Range (DC)	70-450V*						90-550V*			90-550V*	
Rated Voltage DC	300V									360V*	
Max Permissible DC Current / MPPT	**20A**									**20A + 20A**	
Max MPPT Short Circuit Current (ISC)	**30A**									**30A + 30A**	
No. of MPPT	**1**									**2**	
No. of Strings per MPPT	**1**									**1+1**	
DC Connection Type	MC 4 Connector										
AC Parameters											
Nominal AC Output Power	1000W	2000W	3000W	3300W	3600W	4000W	5000W	5400W	6000W	5500W	6000W
Rated Output Current	4.50A	9.10A	13A	14.3A	16.40A	18.20A	22A	23.4A	27A	23.8A	27.7A
Max Output Current	4.80A	9.50A	14.5A	16A	16.80A	18.5A	24A	26A	27.30A	26.4A	30.7A
Rated Voltage	220-230V-240V										
Operating Voltage Range	**140-290V Variable**										
Operating Frequency Range	45-55Hz Variable										
AC Connection Configuration	L+N+PE										
Power Factor	0.8 leading - 0.8 lagging										
I THD	<2% @ Rated Output Power										
Self Consumption (Night)	**<0.2w**										
DC Current Injection	<0.25%										
Efficiency											
Peak Efficiency		98.80%	98.10%	98.10%	98.10%	98.10%	98.10%	98.10%	98.10%	98.10%	98.10%
Euro Efficiency		97.20%	97.80%	97.80%	97.80%	97.80%	97.80%	97.80%	97.80%	97.80%	97.80%
MPPT Efficiency		99.90%	99.50%	99.50%	99.50%	99.50%	99.50%	99.50%	99.50%	99.50%	99.50%
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**										
Operating Elevation / Altitude	≤4000m										
Cooling Method	Natural Convection										
Relative Humidity	0 ~ 100 %										
Noice level dB	<25 dB										
Dimensions	297 * 220 *158 mm									358 * 300 * 158 mm	
Weight	6KG									10KG	
Warranty	**10 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)										

Three Phase On-Grid Inverter Datasheets

MODEL	Three Phase Inverters - 2MPPT (SST2M Model)												
SST 2M	**5kW**	**6kW**	**8kW**	**10kW**	**12kW**	**15kW**	**18kW**	**20kW**	**25kW**	**30kW** Lite	**30kW**	**40kW**	**50kW**
DC Parameters													
Max DC Power	6500W	7800W	10400W	13000W	15600W	19500W	23400W	26000W	32500W	30000W	39000W	52000W	65000W
Max DC Voltage	1100V*												
Startup Voltage Range (DC)	**160V**												
Operating Voltage Range (DC)	160V-950V*												
Rated Voltage DC	620V*												
Max Permissible DC Current / MPPT	**15A + 15A**					**40A + 40A**					**40A+40A+40A**	**40A+40A+40A+40A**	
Max MPPT Short Circuit Current (ISC)	**20A + 20A**					**50A + 50A**					**50A+50A+50A**	**50A+50A+50A+50A**	
No. of MPPT	**2**					**2**					**3**	**4**	
No. of Strings per MPPT	**1+1**					**2+2**					**2+2+2**	**2+2+2+2**	
DC Connection Type	MC 4 Connector												
AC Parameters													
Nominal AC Output Power	5000W	6000W	8000W	10000W	12000W	15000W	18000W	20000W	25000W	30000W	30000W	40000W	50000W
Rated Output Current	7.2A	8.7A	11.5A	14.4A	17.3A	21.7A	26A	29A	36A	43A	43A	61.2A	70.5A
Max Output Current	8A	10A	13A	16A	19A	24A	29A	32A	40A	48A	48A	66.6A	83.3A
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% @ 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%	98.10%	98.10%	
Euro Efficiency	97.60%	97.60%	97.60%	97.80%	97.80%	97.80%	98.00%	98.00%	98.00%	**98.00%**	97.80%	97.80%	
MPPT Efficiency	99.10%	99.10%	99.10%	99.10%	99.10%	99.10%	99.10%	99.10%	99.10%	99.10%	98.50%	98.50%	
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												
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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**												
Operating Elevation / Altitude	≤4000m												
Cooling Method	Natural Convection + Smart Fan												
Relative Humidity	0 ~ 100 %												
Noice level dB	<30 dB												
Dimensions	428 x 385 x 185 mm							520 x 412 x 200 mm			585x480x220mm		
Weight	19KG							22KG			37Kg		
Warranty	**10 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)												