



SYT Series

30KW-80KW

The SYT Series of our company fuses higher capacity in a lightweight compact design. Best for commercial uses, our three-phase inverters function at smart string levels, which makes monitoring and diagnosis seamless.

Best Compatible with Bifacial PV modules.



AC/DC built-in Type II SPD (Optional) and I-V curve diagnosis supported.



10s level interval of date update (Optional) and multiple interfaces for presenting date.



IP 65 rated, engineered to last with maximum flexibility, making it suitable for outdoor installation.

Three Phase Inverters

Model SYT30KW SYT35KW SYT40KW SYT45KW SYT50KW SYT60KW SYT70KW SYT80KW
DC INPUT

DC Input Watt	38000	35000	40000	45000	50000	60000	70000	80000
MAX DC Voltage	1000V - 1100V							
Operating Voltage Range (DC)	200-1000V							
Full power MPPT voltage range	250-850V							
Rated Voltage DC	600 V							
Startup Voltage	200V							
No of MPPT	3	3	3	3	4	6	6	6
No of Strings per MPPT	2x3	2x3	2x3	2x3	2x4	2x6	2x6	2x6
Max. permissible DC current / MPPT	40Ax3	40Ax3	40Ax3	40Ax3	40Ax4	40Ax6	40Ax6	40Ax6
DC Connection Type	MC4 Connector							

AC OUTPUT

Nominal AC Output power	30KW	35KW	40KW	45KW	50KW	60KW	70KW	80KW
Max AC Current	42.2A	49.2A	56.2A	63.3A	70.7A	84.4A	98.4A	112.5A
Rated Voltage	230/400, 240/415							
Operating voltage Range	320-460V Variable							
Operating Frequency Range	45-55Hz Variable							
AC connection configuration	3P+N+E / 3P+E							
Power Factor	0.8 leading ~0.8 lagging (full load)							
I THD	<3%							
Standby Consumption	<0.2W							
DC Current Injection	<0.5%							

EFFICIENCY

Peak efficiency	98.30%	98.50%	98.80%	98.30%	98.80%	98.60%	98.50%	98.50%
Euro efficiency	98.20%	98.20%	98.50%	98.10%	98.50%	98.10%	98.10%	98.10%
MPPT efficiency	99.80%	99.90%	99.90%	99.80%	99.90%	99.80%	99.10%	99.80%

FEATURES/PROTECTIONS

Display type (LED/LCD)	LED Indicators
communication Port	RS 485, WIFI, GPRS
Ground fault monitoring	INTEGRATED
Thermal Protection	INTEGRATED
Power switch DC side	INTEGRATED
RCD monitoring	INTEGRATED
DC reverse polarity protection	INTEGRATED
Built in DC SPD type / AC SPD	TYPE II
Anti-Islanding Protection	INTEGRATED
Output Over Current Protection	INTEGRATED
Anti-PID feature	INTEGRATED
DC-AC conversion topology	Transformerless

AMBIENT CONDITIONS

Operating Temperature Range	25 °C + 60 °C	
Protection level (IP)	Ip66	
Operating Elevation / Altitude	4000m	
Cooling	SmartAir Cooling	
Noise level dB	<55 dB	
Dimensions	580x430x263 (30 to 45)	460x430x243 (50 to 80)
Weight	33kg	50 kg
Warranty	10 years conditional warranty	

CERTIFICATES

Grid condition /Anti Islanding /EMC/ Performance /Environmental /safety	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC 62116, IEC 61727 IS 16221 (PART 2) : 2015/IEC 62109-2 : 2011 16169 : 2014/IEC 62116 : 200
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