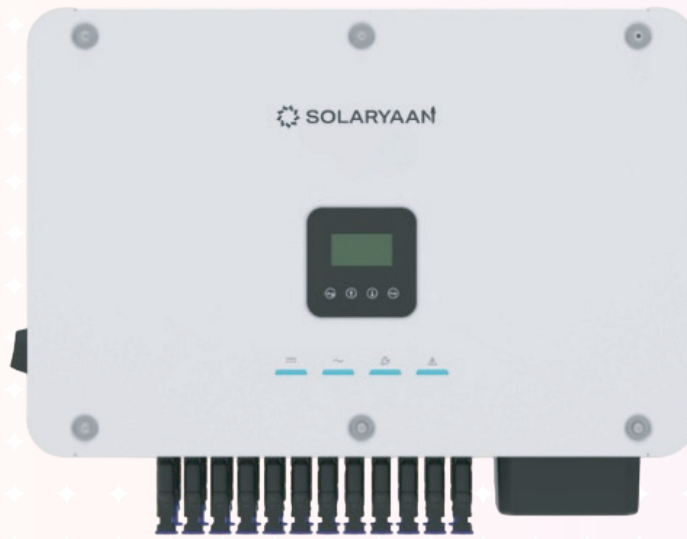


SYT Series

35KW-80KW



PV STRING MONITORING

Real time PV string current sampling and monitoring, with string performance analysis and report abnormal condition capability.



PID RECOVERY

Improving panel efficiency over life time and prevents further degradation with auto detection and adjustment.



AFCI FUNCTION

Providing safe and reliable protection against arc, and accurate and fast response to ensure man and device safety.



IP66 RATED

Reliable performance under extreme environment and temperature condition, extending product life with minimum effort.

SYEV22kWP3-A 22kW THREE PHASE

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*Feature to be upgraded in the future. (T&C Apply)

Three Phase Inverters – Technical Specifications

Model	SYT35KW	SYT40KW	SYT45KW	SYT50KW	SYT60KW	SYT70KW	SYT75KW	SYT80KW
DC Input								
DC Input Watt	42000W	48000W	54000W	60000W	72000W	84000W	90000W	96000W
MAX DC Voltage	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	4				6			
No of Strings per MPPT	2x4				2x6			
Max. permissible DC current / MPPT	40A				40A			
Max Short Ckt Current	50A							
DC Connection Type	Mc4 Connector							
AC Input								
Nominal AC Output power	35KW	40KW	45KW	50KW	60KW	70KW	75KW	80KW
Max AC Current	49.2A	56.2A	63.3A	70.7A	84.4A	98.4A	110A	112.5A
Rated Voltage	230V/415V							
Operating Frequency Range	50-60Hz							
AC connection configuration	3P+N+E / 3P+E							
Power Factor	>0.99							
I THD	<3%							
Standby Consumption	<0.2W							
DC Current Injection	<0.5%							
EFFICIENCY								
Peak efficiency	98.50%	98.80%	98.30%	98.80%	98.60%	98.50%	98.50%	98.50%
MPPT efficiency	99.90%	99.90%	99.80%	99.90%	99.80%	99.10%	99.80%	99.80%
FEATURES/PROTECTIONS								
Display type	LED Indicators - Web - Application							
communication Port	RS 485, WIFI, GPRS, Local Monitoring							
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							
AFCI	INTEGRATED							
AMBIENT CONDITIONS								
Operating Temperature Range	-25 to + 60							
Protection level (IP)	Ip66							
Operating Elevation / Altitude	4000m							
Cooling	SmartAir Cooling							
Noise level dB	<55 dB							
Dimensions	580x430x263mm (30 to 45)				460x430x243mm (50 to 80)			
Weight	33kg				50 kg			
Warranty	10 Years							
CERTIFICATES								
IEC/BIS	IS 16221 (PART 2):2015/IEC 62109-2 :2011 & IS 16169 :2014/IEC 62116 :2008 / IS 17980: 2022/ IEC 62891:2020 IEC 60068-2-1:2007, IEC60068-2-2:2007, IEC60068-2-14:2009, IEC60068-2-30:2005EN IEC 61000-6-3:2021,EN IEC 61000-6-1:2019,IEC61683:1999IEC 61727:2004, IEC 62116:2014IEC/EN 62109-1: 2010,IEC/EN 62109-2: 2011							