

SYT Series

100KW and 125KW

Intelligence for easy maintenance and economy

- Built-in export power control with remote setting and upgrading
- 24-hour operation monitoring
- Smart I-V Curve Diagnosis supported
- Night-time reactive power compensation
- Aluminum SC cable connection available
- Power line communication (PLC) (Optional)
- Fuse-free design with smart string current monitoring
- Smart air-cooling technique results in long lifetime of fans
- Advanced heat dissipation technology makes the system more than 5% lighter and smaller



More energy harvests

- Maximum efficiency up to 99%
- 180~1000Vdc MPPT voltage range
- Maximum 12 MPPTs, 2 strings per MPP tracker
- 150% PV oversizing input, 110% overloading output
- Maximum 32A MPPT current

Safety & Reliability

- IP66 protection level
- AFCI protection (optional)
- AC terminal temperature detection
- Both AC&DC SPDs (Type II) inside, Type I + II SPD is optional

Three Phase Inverters – Commercial Series

Model	SYT100KW	SYT125KW
DC OUTPUT		
Max. PV array input power [kWp]	150	188
Max. PV input voltage [V]	1100	
Startup voltage [V]	200	
Nominal input voltage [V]	580/600	580/600
MPP tracker voltage range [V]	180~1000	
No. of MPP trackers	9	12
Strings per MPP tracker	2	
Max. input current per MPPT [A]	32	
Max. short circuit current per MPPT [A]	46	
AC OUTPUT		
Nominal AC output power [kW]	100	125
Nominal AC output current [A]	151.6/145	189.4/181.2
Max. AC output apparent power [kVA]	110	132
Max. AC output current [A]	166.7/159.5	200/191.3
Nominal AC voltage[V]	220/380, 230/400, 3/N/PE, 3/PE	
Nominal Grid Frequency [Hz]	50/60	
Displacement power factor	0.8 leading-0.8 lagging	
THDi (Rated power) [%]	<3	
SYSTEM DATA		
MPPT efficiency [%]	99.9	
Max. efficiency [%]	98.6	
Ingress protection	IP66	
Operating temperature range [C]	-30~+60 (Derating above 45)	
Max. operation altitude [m]	4000 (Derating above 3000)	
Relative humidity [%]	0~100	
Dimensions[W×H×D] [mm]	985×660×327.5	
Weight [kg]	83	87
Cooling concept	Smart fan cooling	
Communication interfaces	RS485 / (Optional: Pocket WiFi/LAN/4G) / PLC(Optional)/ USB	
Display	LCD(Optional)/LED*4	
PROTECTION		
Over/under voltage protection	YES	
DC isolation protection	YES	
Grid monitoring	YES	
DC injection monitoring	YES	
Residual current detection	YES	
Anti-islanding protection	YES	
String fault detection	YES	
SPD (DC/AC)	Type II / Type II	
Arc-fault circuit interrupter (AFCI)	Optional	
AC terminals over-temperature detection	YES	
AC auxiliary power supply (APS)	Optional	
Power line communication (PLC)	Optional	
STANDARD		
Grid condition /Anti Islanding/EMC/ Performance /Environmental/safety	IEC 61000-6-1/2/3/4, IEC 62109-1, IEC 62109-2, IEC 62116, IEC 61727	