

SOLAR

POLYCAB SOLAR GRID TIE INVERTERS

SUITABLE FOR COMMERCIAL & INDUSTRIAL SOLAR PROJECTS

100KW - 110KW STRING INVERTERS



Leading Features

- Maximum Efficiency 98.7%
- Wide Voltage Range
- Supports 50% DC overload,
- 10 MPPT design with precise MPPT algorithm
- THDi < 2%, Low Harmonic Distortion
- IP66 for outdoor Installation
- Intelligent Fan Cooling
- Intelligent string monitoring
- Smart I-V Curve Diagnosis
- Fuse free design to avoid hazard
- Type II SPD for both DC and AC side
- Integrated DC disconnect switches
- RS-485,Wi-Fi / GPRS monitoring interface
- Support "Y" type connection in DC side
- Supports aluminium wire access to reduce cost
- Free remote monitoring on Web Portal and Mobile App
- 7 Years Standard Warranty

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TECHNICAL SPECIFICATIONS		
MODEL	PSIT-100K-AM10	PSIT-110K-AM10
Rating	100 KW	110 KW
INPUT (PV)		
Max. DC Input Voltage	1100 V	
Max. DC Input Current	30A *10	30A *10
MPPT Voltage Range	200 - 1000 V	
Recommended MPPT Operating Range	600 V	
No. of MPPT	10	10
Max. no. of Strings per MPPT	2	
OUTPUT (GRID)		
Rated Output Power	100 KW	110 KW
Max. Output Power	110 KVA	121 KVA
Max. Output Current	158.8A	174. 6A
Rated grid Voltage	400V	
Grid Voltage range	310 ~ 480Vac	
Rated Grid Frequency	50Hz / 60Hz	
Grid Frequency Range ²	45-55Hz / 55- 65Hz	
THD	<2% (Under the rated power)	
Power Factor	<0.99 (rated power) / 0.8 leading ~ 0.8 lagging	
DC Current Injection	<0.5% (Under the rated power)	
SYSTEM DATA		
Max. Efficiency	98.7%	98.7%
Euro. Efficiency	98.1%	98.1%
Humidity range	0-100% non-condensing	
Cooling type	Intelligent forced air cooling	
Temperature range	-25 ~ +60°C	
Power consumption at night	<1W	
Max. working altitude	4000m	
Display	LED / LCD	
Communication interface	RS485 / Wifi / GPRS (optional)	
PROTECTION		
DC reverse -polarity protection	Support	
Short circuit protection	Support	
Output over current protection	Support	
Output over voltage protection	Support	
Insulation resistance monitoring	Support	
Residual current detection	Support	
Surge protection	Support	
Grid monitoring	Support	
Islanding protection	Support	
Temperature protection	Support	
Integrated DC switch	Support	
MECHANICAL DATA		
Dimensions (WxHxD)	1050 x 620 x 333mm	
Weight	89kg	
Protection class	IP66	
CERTIFICATES		
Grid Connection standard	IEC 61727	
Anti - Islanding Protection	IEC 62116	
Environmental Testing	IEC 60068 - 2	
Efficiency Measurement	IEC 61683	
Safety standard	IEC 62109 - 1/2	
Electromagnetic compatibility	IEC 61000 - 6 - 2/4	
WARRANTY	7 Years	

Note: Specifications are subject to change

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