

Three Phase Photovoltaic Inverter

Photovoltaic inverter is a device that converts direct current (DC) generated by photovoltaic solar panels into alternating current (AC), and is one of the core components of photovoltaic power generation systems.



Product Core Highlights



Maximum efficiency of 98.7%, ultra-low starting voltage, ultra wide voltage range



High protection level IP66, intelligent air cooling, low noise



Possess adaptability to weak current networks



Supports 1.5 times DC super matching, compatible with up to 20A high current components



Support intelligent detection of DC arc pulling (optional)



One frequency modulation, multiple operating modes such as P-F, Q-U, etc

PHOTOVOLTAIC SYSTEM PRODUCTS



Product Model	TSI-80K3P-03-CN	TSI-100K3P-03-CN	TSI-110K3P-03-CN
DC input			
Maximum allowable input power	120kW	150kW	165kW
Maximum input voltage	1100V		
Starting voltage	180V		
Rated input voltage	580V		
MPPT voltage range	200V~1000V		
Number of MPPT	8	8	8
Maximum number of PV string	2	2	2
Maximum input current	40A*4+32A*4	40A*4+32A*4	40A*4+32A*4
Maximum short circuit current	50A*8	50A*8	50A*8
AC output			
Rated output power	80kW	100kW	110kW
Maximum apparent power	88kVA	110kVA	121kVA
Maximum output current	3*128A	3*160A	3*176A
Rated grid voltage	3/N/PE,400V		
Voltage range of power grid	300V ~ 480V		
Rated grid frequency	50Hz		
Grid frequency range	45Hz ~ 55Hz		
Power factor	>0.99 (0.8 leading ~ 0.8 lagging)		
THDi	< 3%		
DC Component	< 0.5%		
Efficiency			
Maximum efficiency	98.7%	98.7%	98.7%
Efficiency in Europe	98.1%	98.1%	98.1%
Efficiency in China	98.1%	98.1%	98.1%
System			
DC reverse protection	Available		
Communication short circuit protection	Available		
AC output overcurrent	Available		
Over Voltage Protection	Available		
Insulation impedance protection	Available		
Residual current (RCD)	Available		
Surge protection	Level II lightning protection		
Island protection	Available		