

EV100KWT

String PV Inverter



High-Efficiency Power Generation

Enable to convert and output clean, as well as high-stable and pure energy.

High conversion efficiency, wide voltage range, long-lasting power generation, higher profitability, multi-channel MPPT, actively adapt to complex power grids, ensuring stable power output.



On the Safe Side

PID repair extends component lifespan and enhances power generation, tighten the SVG functionality, type-gas power factor and leakage line losses, Intelligent arc detection with multiple safety protection.

PID activates only by the inverter feeding array, which will work in normal state in inactive.



Smart Energy

Flexible selection of multiple communication modes suitable for various scenarios; Intelligent I-V scanning enables rapid fault localization.

Cloud service 24/7

Product model	EV100KWT
DC side parameters	
Starting voltage	200V
Maximum DC input voltage	1100V
Maximum current input for each MPPT channel	48A
MPPT voltage range	180~1000V
Rated operational voltage	600V
MPPT quantity	6
Number of MPPT strings per channel	3
AC side parameter	
Output rating	100kW
Maximum output	110kVA
Maximum output current	167.1A
Rated grid voltage	220V/380Vac
Grid voltage range	323~418V
Rated grid frequency	50Hz/60Hz
Grid frequency range	45~55Hz / 55~65Hz
Harmonic (THD)	<2% (rated power)
Power factor	>0.99 (rated power), adjustable from 0.8 lead to 0.8 lag
DC component	<0.5% (rated power)
Defensive function	
Power Grid Monitoring	Possess
Island Protection	Possess
Input reverse protection	Possess
Output short-circuit protection	Possess
Overvoltage protection output	Possess
Overcurrent protection output	Possess
Leakage current protection	Possess
Surge protection	DC Type II / AC Type II
Component-level insulation impedance detection	Possess
AC/DC terminal temperature detection	Possess
Intelligent string segmentation	Possess
DC Switch	Possess
String Detection	Possess
Intelligent Arc Protection	Selectable
Component PID Repair	Selectable
System parameter	
Maximal efficiency	98.5%
China efficiency	98.1%
Humidity range	0~100%, no condensation
Cooling-down method	Smart Air Cooling
Working temperature	-40°C ~ +60°C
Nighttime power consumption	<5W
Allow altitude elevation	5000 m (over 4000 m: reduced rating)
Show	LED/APP/Web
Communication	RS485/Bluetooth/4G (with optional communication card) + APP & PLC (optional)
Size (Width * Height * Depth)	1025*795*380mm
Weight	100kg
Levels of protection	IP66
approval standards	
Safety · standard/electro-magnetic compatibility and grid integration standards	NB/T 32004-2018, GB/T 37408-2019, IEC 62109-1/2 NB/T 32004-2018, GB/T 29319-2024