Micro Inverter

Sunny 600
Sunny 700

Description

With the output power up to 700VA, AVT New Energy micro inverter Sunny series rank the highest in the field of 2-in-1 micro inverters. Each micro inverter is able to connect up to 2 panels, with independent MPPT which can maximize the power efficiency up to 99.8%.

The integrated 2.4G wireless solution provides easier communication with the cloud to monitor the system working status and offer remote firmware upgrade.

Features:

☺ Maximum power output up to 700 VA in a single unit

☺ 2-in-1 design brings faster installation and reduces system cost

☺ Independent MPPT and monitoring ensure high power transfer efficiency and easier maintenance

☺ High reliability: NEMA 3R (IP65) enclosure; 6000V surge protection

☺ 2.4G wireless solution provides easier communication for system monitoring and setting

☺ Compliance with: EN 50549-1: 2019, EN 50549-2: 2019, EN61000-6-1:2007,EN61000-6-3:2007+A1:2011+AC2012, IEC/EN 62109-1/2010, IEC/EN 62109-2/2011

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Technical Specification

Model	Sunny 600	Sunny 700
DC INPUT		
Maximum input power (W)	2*375	2*435
Maximum input voltage (V)		60
MPPT input range (V)		30 to 60
Inverter starting voltage (V)		22
Maximum input current (A)	2*12	2*16
Maximum input short circuit current (A)	2*13	2*14
Number of MPPT		2
AC OUTPUT		
Maximum output power (VA)	600	700
Rated output current (A)	@120V 5A @230V 2.6A	@120V 5.9A @230V 3.05A
Nominal Output Voltage Range (V)	80-160 for 120V AC (Application area: such as Japan, North America, etc.) or 180-265 for 230V AC (Application area: such as Europe)	
Nominal Frequency Range (Hz)	48 to 51 for grid with 50Hz 58 to 61 for grid with 60Hz	
Power Factor	> 0.99 default 0.8 leading...0.8 lagging	
Total harmonic distortion (THD)	<3%	
Maximum number of connections per branch	@120V 6PCs @230V 12Pcs	@120V 6 PCs @230V 12Pcs
Efficiency		
CEC peak efficiency		92.50%
Nominal MPPT efficiency		99.80%
Night power consumption (mW)		50
Mechanical Data		
Ambient temperature range (℃)		-40 to +60
Dimensions (L × W × H mm)		283×200×41.6
Weight (kg)		1.5
Waterproof level		Outdoor NEMA 3R (IP65)
Cooling		Natural convection (no fans)
Features		
Communication connectivity		Wifi 2.4G
Power delivery mode		Reverse transmission, load priority
Monitoring		Cloud Intelligence
Compliance	EN 50549-1: 2019, EN 50549-2: 2019, EN61000-6-1:2007, EN61000-6-3:2007+A1:2011+AC2012, IEC/EN 62109-1/2010, IEC/EN 62109-2/2011	
Warranty		5 years