WVC 300, 600, 1200



Grid-Tied Solar Micro Inverter



- High performance Maximum Power Point Tracking (MPPT)
- Intelligent monitoring system with or without WiFi
- Input/output is completely isolated to protect the electrical safety
- Multiple all parallel stacking need not be mixed & matched as in conventional ways
- Easy to install and maintain
- Flexible installation methods
- IP65 protection class for outdoor use

The WVC Series Micro Inverter delivers increased energy harvest and reduces investors' unit cost on each watt generates. It has built-in high performance Maximum Power Point Tracking (MPPT) function; precisely track changes in solar luminosity, control varied output power, and effectively collect sun energy. The inverter output power can provide load priority and transfer extra electricity to the grid.

It has 2 communication modes: power line carrier communication signals between the inverter and collector; and RS232 serial port / WIFI communication between collector and a PC or other communication devices. With PTPL^{*} monitoring systems, the inverter can collect real-time data and master start up, shut down and power regulation easily.

WVC 300, 600, 1200 Micro Inverter Specifications

MODEL	WVC 300	WVC 600	WVC 1200	
Recommended input power	300W	600W	1200W	
Recommended solar panel configuration	1x300Wp	2x300Wp	4x300Wp	
Recommended solar panel type	Vmp>34V, Voc<50V			
Nominal output standards	120Vac/60Hz or 230Vac/50Hz			
INPUT (DC)				
Max. input voltage	50Vdc			
Peak power tracking voltage	22 - 50Vdc 25 - 40Vdc			
Operating voltage range	17 - 50Vdc			
Min. / max. start voltage	22 - 50Vdc			
Max. DC short circuit current	15A	40A	80A	
Max. input current	9.8A	25A	54.4A	
DC input reverse voltage protection	Fuse			
OUTPUT				
AC max. output power	260W	600W	1200W	
Rated output power	250W	550W	1150W	
Rated output current	2.08A or 0.92A	4.58A or 2.3A	9.58A or 5A	
Rated output voltage range	80-160Vac or 180-260Vac			
Rated frequency range	59.5-60.5Hz or 49.5-50.5Hz	57-62.5Hz or 47-52.5Hz	59.5-60.5Hz or 49.5-50.5Hz	
Power factor	>95%	>96%	>98%	
Max. units per branch circuit	15 or 30 units	6 or 12 units	3 or 5 units	
EFFICIENCY				
Static MPPT efficiency	99.5%			
Peak inverter efficiency	94.6%	92%	92%	
Max. output efficiency	92.3% or 94.6%			
Average efficiency	91.2% or 93.1%			
Standby power	< 50mW or 70mW			

PROTECTION					
Islanding protection	VAC; FAC				
DC input reverse voltage protection	Fuse				
Output open circuit protection	Current limiting				
Display	LED				
SYSTEM & ENVIOMENTAL					
Communication mode	60Khz modulation, power line carrier-current communication				
Power transmission mode	Reverse transfer, load priority				
Monitoring system	Lifetime free				
LED display	Power rate, voltage, AC frequency, over voltage display				
THD	< 5%				
AC phase	< 0.5%				
Ambient temperature range	-40°C to +60°C				
Operating temperature (inside the inverter)	-40°C to +80°C				
Humidity	0-100% (Non-condensing)				
Cabinet protection class	IP65				
Cooling method	Self-cooling				
Electromagnetic compatibility	EN50081 part1, EN50082 part1				
Power system disturbance	EN61000-3-2 Safety EN62109				
Grid detection	DIN VDE 1026 UL1741				
Certificate	CE, CEC				
PHYSICAL					
Dimension (LxWxH) (mm)	191x176x38	289x200x38	370x305x38		
Net weight (kg)	0.83	1.58	2.85		
Gross weight (kg)	1.27	2.6	4.2		
Inner box size (LxWxH) (cm)	240x195x70	340x245x98	435x380x120		
Installation type	Fix the inverter on the PV holder				

*Frequency ranges can be extended beyond nominal if required by the utility.

*Specifications subject to change: Always check PTPL[®] label for specifications of a particular unit.