

2-in-1 Microinverter

Cherry Polar-600-1000SW6/SS6



PRODUCT
APPEARANCE



FUNCTIONAL
CHARACTERISTICS

Smart Communication

- Supports Sub-1G & Wi-Fi connectivity
- Equipped with iMesh networking technology
- Strong anti-interference, ensuring stable data transmission

Easy Installation

- Quick deployment by a single person, flexible expansion
- Enables efficient distributed system setup

Compact & Lightweight

- Ultra-compact body with curved hook structure
- Aesthetic and sturdy, adaptable to various rooftop scenarios

Comprehensive Safety Protection

- Certified by 200+ safety tests
- IP67 protection, operates at 60V low-voltage DC
- Prevents arc faults at the source

TECHNICAL SPECIFICATIONS

Product Model	Cherry Polar-600SW6/SS6	Cherry Polar-700SW6/SS6	Cherry Polar-800SW6/SS6	Cherry Polar-900SW6/SS6	Cherry Polar-1000SW6/SS6
Input (DC)					
Typical Module Compatibility (W)	240 - 450+	280 - 525+	320 - 600+	360 - 670+	400 - 670+
Max. Input Voltage (V)	60				
Operating Voltage Range (V)	16-60				
MPPT Voltage Range (V)	33-60				
MPPT Operating Voltage Range (V)	16-60				
Start-up Input Voltage (V)	20				
Max. Input Current (A)	16				
Max. Short-circuit DC Input Current (A)	20				
MPPT Channels / Strings per MPPT	2/1				
Output (AC)					
Nominal Output Power (VA)	600	700	800	900	1,000
Output Voltage (V)	230/180-275				
Output Current (A)	2.61/3.33-2.18	3.04/3.89-2.55	3.48/4.44-2.91	3.91/5.0-3.27	4.35/5.56-3.64
Rated Output Frequency / Range (Hz)	50/45-55				
Power Factor	>0.99 default, 0.8 leading ... 0.8 lagging				
THDi	< 3%				
Efficiency					
Peak Efficiency	96.70%				
CEC Weighted Efficiency	96.30%				
MPPT Conversion Efficiency	99.80%				
Night-time Power Loss (mW)	<30				
General Data					
Operating Ambient Temperature (°C)	-40 to +65				
Storage Temperature Range (°C)	-40 to +85				
Dimensions (W*H*D mm)	325 x 170 x36				
Weight (kg)	2.8				
DC Connector Type	MC4				
Degree of Protection	IP67				
Cooling	Natural cooling(No fans)				
Features					
Communication ¹	Sub-1G/WIFI				
Isolation	High-frequency isolation transformer				
Energy Management App	Cherry App				
Warranty	12 years				
Certifications					
Safety, EMC, Grid Compliance	EN 62109-1, EN 62109-2, EN IEC 61000-6-1/3, EN 300328, VDE 4105				

*1: Sub-1G: Cherry Polar-600-1000SS6; Built-In Wi-Fi: Cherry Polar-600-1000SW6

• Design and specifications are subject to change without notice.