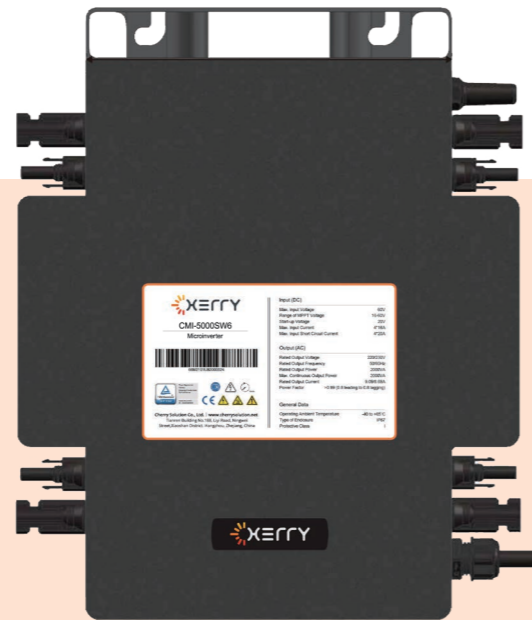


8-in-1 Microinverter

Cherry Polar-4000/4500/5000SW6/SS6



PRODUCT
APPEARANCE



FUNCTIONAL
CHARACTERISTICS

High-Power Design, Wide Module Compatibility

- 5000 W output, 20 A input, compatible with 182/210 high-power modules.
- Improves system efficiency for commercial and high-power scenarios.

4 MPPTs for Higher Energy Yield

- Four independent MPPTs for precise string management.
- Reduces mismatch losses and boosts overall energy harvest.

8-in-1 Design for Lower System Cost

- Connect up to eight PV modules per inverter for flexible deployment.
- Quick-connect design enables fast installation and efficient wiring.

Smart Communication & Safe Operation

- 2.4G wireless module with Cherry Cloud for remote monitoring.
- Built-in protections ensure stable and reliable system performance.

TECHNICAL SPECIFICATIONS

Product Model	Cherry Polar-4000SW6/SS6	Cherry Polar-4500SW6/SS6	Cherry Polar-5000SW6/SS6
Input (DC)			
Typical Module Compatibility (W)	400~650+	560~700+	600~750+
Maximum input voltage (V)	140		
Min./Max. start-up voltage (V)	32/136		
MPPT Operating Voltage Range (V)	12~136		
Peak power MPPT voltage range (V)	58~136	59~136	66~136
Max. Input Current (A)	4*20		
Max. input short circuit current (A)	4*25		
Number of MPPTs	4		
Strings per MPPT	1		
Output (AC)			
Grid type	Grid type Three Phase		
Rated output power (VA)	4000	4500	5000
Rated output current (A)	3 × 5.79	3 × 6.52	3 × 7.25
Nominal output voltage (V)	230/400 3L+N+PE		
Nominal frequency (Hz)*	50/60		
Nominal range (Hz)*	45~55 / 55~65		
Adjustable power factor (@rated power)	>0.99 default 0.8 leading ... 0.8 lagging		
Total harmonic distortion (@rated power)	< 3%		
Maximum units per 2.5 mm ² branch**	3	3	3
Maximum units per 4 mm ² branch**	5	4	4
Maximum units per 6 mm ² branch**	6	5	5
Efficiency			
Peak efficiency	97.40%		
CEC weighted efficiency	96.20%		96.30%
Nominal MPPT efficiency	99.80%		
Night power consumption (mW)	<50		
General Data			
Ambient temperature range (°C)	-40~+65		
Storage temperature range (°C)	-40~+85		
Dimensions (W × H × D mm)	395 × 308 × 60		
Weight (kg)	9		
Enclosure rating	Outdoor-IP67		
Cooling	Natural convection-No fans		
Protection			
Active Power Regulation, Reactive Power Regulation, High Voltage Ride Through (HVRT), Low Voltage Ride Through (LVRT)			
Features			
Anti-Islanding Protection, Input Reverse Polarity Protection, Output Short-Circuit Protection, Output Overcurrent Protection, Output Overvoltage Protection, Surge Protection			
Other			
Communication	2.4G		
Topology	Transformerless		
Monitoring	Cherry Cloud		
Compliance	NB/T 32004-2018		

*1: The parameter may vary depending on local requirements

*2: Refer to local requirements for exact number of microinverters per branch.

• Design and specifications are subject to change without notice.