



cherrysolution.net

MICROINVERTER PRODUCTS



Cherry On Top@Smart Zero-Carbon

ABOUT CHERRY

01. Company Profile

Cherry Solution, established in 2023 and headquartered in Hangzhou, Zhejiang, specializes in advanced power electronics intelligent technology, new third-generation semiconductor device packaging technology, and innovative energy digital and intelligent technologies. The company's main products include microinverters, residential energy storage systems, intelligent storage robots for households, and commercial and industrial energy storage products, offering comprehensive energy solutions.

The core team of Cherry Solution is comprised of members from leading enterprises in the industry and top universities worldwide, with the founder possessing extensive experience in intelligent technology. The company is dedicated to driving the intelligent era through technological innovation, aiming to provide global users with efficient and intelligent energy solutions while advocating for a zero-carbon and low-carbon lifestyle.

02. Cultural Concept

Vision

In the future energy field, everyone can enjoy a zero-carbon and low-carbon lifestyle and promote society towards the goal of sustainable development.

Mission


Cherry focuses on customer needs, adheres to the zero-carbon concept, injects power into the global energy transformation, and contributes to environmental protection and sustainable development.

Values

Creativity **H**onesty **E**fficiency **R**eliability **R**esponsibility **Y**outh



03. R&D Strength

 **R&D Team**
60% Core R&D personnel account for all employees

 **Labs**
3 in Hangzhou, Haining, Suzhou

 **R&D center**
3 in Hangzhou, Haining, Suzhou

MICROINVERTER

CMI-300/400/500S-S/WA



PRODUCT
APPEARANCE



FUNCTIONAL
CHARACTERISTICS

Reliable

- Low-voltage operation below 60V, it is safer to apply to roof power stations
- Built-in relay for physical disconnection
 - IP67 degree of protection, adaptable to diverse scenarios

Simple

- Hook type design
- Easy expansion, plug-and-play

Efficient

- Module-level MPPT, output power up to 500 VA
- 16A max. input current, compatible with 182/210 modules
- 20V start-up voltage, earlier start & later stop
- 150% DC oversizing, minimizing the cost of electricity

Intelligent

- Support Sub-1G & WiFi communication
- Module-level monitoring
- Remote software upgrade, parameter configuration, alarm fault analysis



TECHNICAL SPECIFICATIONS

Product Model	CMI-300S-SA CMI-300S-WA	CMI-400S-SA CMI-400S-WA	CMI-500S-SA CMI-500S-WA
Input (DC)			
Typical Module Compatibility (W)	240 - 450+	320 - 600+	400 - 670+
MPPT Operating Voltage Range (V)	16 - 60		
Max. Input Voltage (V)	65		
Start-up Input Voltage (V)	20		
Max. Input Current (A)	16		
Max. Short-circuit DC Input Current (A)	20		
Output (AC)			
Nominal Output Power (VA)	300	400	500
Nominal Output Current (A)	1.36 / 1.30 / 1.25	1.82 / 1.74 / 1.67	2.27 / 2.17 / 2.08
Nominal Output Voltage (V)	220 / 230 / 240		
Adjustable Output Voltage Range (V)	183 - 276		
Nominal Frequency (Hz)	50 / 60		
Adjustable Output Frequency Range (Hz)	45 - 55, 55 - 65		
Power Factor (default / adjustable)	>0.99 / 0.8 leading...0.8 lagging		
THDi	<3%		
Max. Units Per 10AWG Branch	29 / 30 / 32	21 / 22 / 23	17 / 18 / 19
Max. Units Per 12AWG Branch	22 / 23 / 24	16 / 17 / 17	13 / 13 / 14
Efficiency			
Peak Efficiency	96.70%		
Nominal MPPT Efficiency	99.80%		
Night-time Power Loss (mW)	<30		
General Data			
Operating Ambient Temperature (°C)	-40 ~ +65		
Dimensions (W*H*D mm)	188*178*25		
Degree of Protection	IP67		
Cooling	Natural Cooling - No fans		
Weight (kg)	1.7		
Features			
Communication ¹	Sub-1G Built-in WiFi		
Type of Isolation	High frequency transformers, Galvanically isolated		
Warranty	12 years standard, 25 years optional		
Protection			
Input Reverse Connection Protection	Yes		
Output Overcurrent Protection	Yes		
Output Overvoltage Protection	Yes		
Anti-islanding Protection	Yes		
Output Short-circuit Protection	Yes		

¹: Sub-1g: Cmi-300/400/500s-Sa, Built-In Wifi: Cmi-300/400/500s-Wa

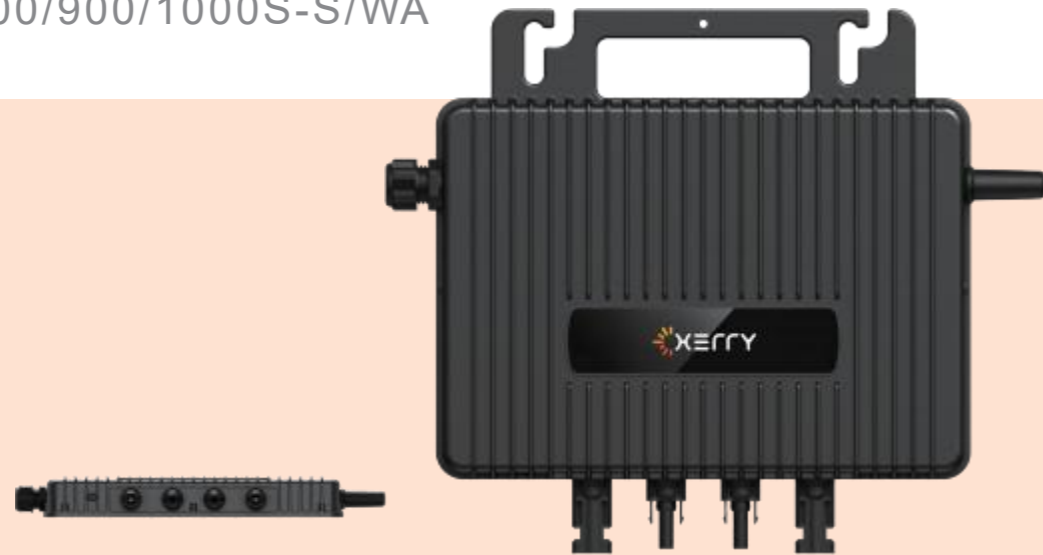
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MICROINVERTER

CMI-600/700/800/900/1000S-S/WA



PRODUCT APPEARANCE



FUNCTIONAL CHARACTERISTICS

Reliable

- o Low-voltage operation below 60V, it is safer to apply to roof power stations
- o Built-in relay for physical disconnection
- IP67 degree of protection, adaptable to diverse scenarios

Simple

- Hook type design
- Easy expansion, plug-and-play

Efficient

- Module-level MPPT, output power up to 1000 VA
- 16A max. input current, compatible with 182/210 modules
- 20V start-up voltage, earlier start & later stop
- 150% DC oversizing, minimizing the cost of electricity

Intelligent

- o Support Sub-1G & WiFi communication
- o Module-level monitoring
- Remote software upgrade, parameter configuration, alarm fault analysis



TECHNICAL SPECIFICATIONS

Product Model	CMI-600S-SA CMI-600S-WA	CMI-700S-SA CMI-700S-WA	CMI-800S-SA CMI-800S-WA	CMI-900S-SA CMI-900S-WA	CMI-1000S-SA CMI-1000S-WA
Input (DC)					
Typical Module Compatibility (W)	240 - 450+	280 - 525+	320 - 600+	360 - 670+	400 - 670+
Mppt Operating Voltage Range (V)	16 - 60				
Max. Input Voltage (V)	65				
Start-up Input Voltage (V)	20				
Max. Input Current (A)	2*16				
Max. Short-circuit DC Input Current (A)	2*20				
Output (AC)					
Nominal Output Power (VA)	600	700	800	900	1000
Nominal Output Current (A)	2.73 / 2.61 / 2.5	3.18 / 3.04 / 2.92	3.64 / 3.48 / 3.33	4.09 / 3.91 / 3.75	4.55 / 4.35 / 4.17
Nominal Output Voltage (V)	220 / 230 / 240				
Adjustable Output Voltage Range (V)	183 - 276				
Nominal Frequency (Hz)	50 / 60				
Adjustable Output Frequency Range (Hz)	45 - 55, 55 - 65				
Power Factor (default / adjustable)	>0.99 / 0.8 leading...0.8 lagging				
THDi	< 3%				
Max. Units Per 10AWG Branch	14 / 15 / 16	12 / 13 / 13	10 / 11 / 12	9 / 10 / 10	8 / 9 / 9
Max. Units Per 12AWG Branch	10 / 11 / 12	9 / 9 / 10	8 / 8 / 9	7 / 7 / 8	6 / 6 / 7
Efficiency					
Peak Efficiency	96.70%				
Nominal MPPT Efficiency	99.80%				
Night-time Power Loss (mW)	<30				
General Data					
Operating Ambient Temperature (°C)	- 40 to + 65				
Dimensions (W*H*D mm)	252*180*35				
Degree of Protection	IP67				
Cooling	Natural Cooling - No fans				
Weight (kg)	3.0				
Features					
Communication ¹	Sub-1G Built-in WiFi				
Type of Isolation	High frequency transformers, Galvanically isolated				
Warranty	12 years standard, 25 years optional				
Protection					
Input Reverse Connection Protection	Yes				
Output Overcurrent Protection	Yes				
Output Overvoltage Protection	Yes				
Anti-islanding Protection	Yes				
Output Short-circuit Protection	Yes				

¹: Sub-1G: CMI-600/700/800/900/1000S-SA, Built-in WiFi: CMI-600/700/800/900/1000S-WA

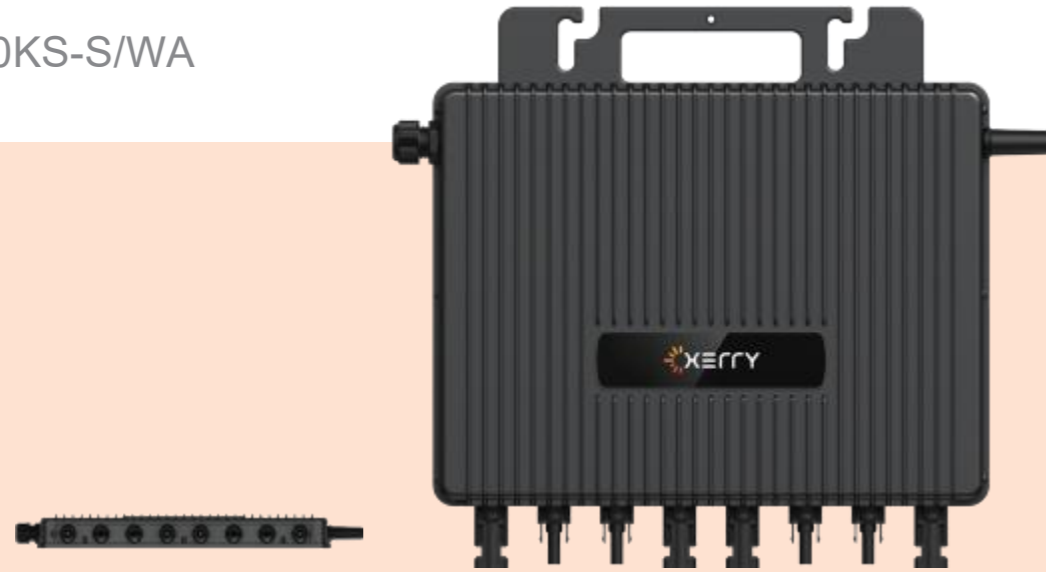
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MICROINVERTER

CMI-1.6K/1.8K/2.0KS-S/WA



PRODUCT APPEARANCE



FUNCTIONAL CHARACTERISTICS

Reliable

- o Low-voltage operation below 60V, it is safer to apply to roof power stations
- o Built-in relay for physical disconnection
- IP67 degree of protection, adaptable to diverse scenarios

Simple

- Hook type design
- Easy expansion, plug-and-play

Efficient

- Module-level MPPT, output power up to 2000 VA
- 16A max. input current, compatible with 182/210 modules
- 20V start-up voltage, earlier start & later stop
- 150% DC oversizing, minimizing the cost of electricity

Intelligent

- o Support Sub-1G & WiFi communication
- o Module-level monitoring
- Remote software upgrade, parameter configuration, alarm fault analysis



TECHNICAL SPECIFICATIONS

Product Model	CMI-1600S-SA CMI-1600S-WA	CMI-1800S-SA CMI-1800S-WA	CMI-2000S-SA CMI-2000S-WA
Input (DC)			
Typical Module Compatibility (W)	320 - 600+	360 - 670+	400 - 670+
Mppt Operating Voltage Range (V)	16 - 60		
Max. Input Voltage (V)	65		
Start-up Input Voltage (V)	20		
Max. Input Current (A)	4*16		
Max. Short-circuit DC Input Current (A)	4*20		
Output (AC)			
Nominal Output Power (VA)	1600	1800	2000
Nominal Output Current (A)	7.27 / 6.96 / 6.67	8.18 / 7.83 / 7.50	9.09 / 8.70 / 8.33
Nominal Output Voltage (V)	220 / 230 / 240		
Adjustable Output Voltage Range (V)	183 - 276		
Nominal Frequency (Hz)	50 / 60		
Adjustable Output Frequency Range (Hz)	45 - 55, 55 - 65		
Power Factor (default / adjustable)	>0.99 / 0.8 leading...0.8 lagging		
THDi	< 3%		
Max. Units Per 10AWG Branch	5 / 5 / 5	4 / 5 / 5	4 / 4 / 4
Max. Units Per 12AWG Branch	4 / 4 / 4	3 / 3 / 4	3 / 3 / 3
Efficiency			
Peak Efficiency	96.70%		
Nominal MPPT Efficiency	99.80%		
Night-time Power Loss (mW)	<30		
General Data			
Operating Ambient Temperature (°C)	- 40 to + 65		
Dimensions (W*H*D mm)	310*236*35.5		
Degree of Protection	IP67		
Cooling	Natural Cooling - No fans		
Weight (kg)	5.0		
Features			
Communication ¹	Sub-1G Built-in WiFi		
Type of Isolation	High frequency transformers, Galvanically isolated		
Warranty	12 years standard, 25 years optional		
Protection			
Input Reverse Connection Protection	Yes		
Output Overcurrent Protection	Yes		
Output Overvoltage Protection	Yes		
Anti-islanding Protection	Yes		
Output Short-circuit Protection	Yes		

¹: Sub-1G: CMI-1600/1800/2000S-SA, Built-in WiFi: CMI-1600/1800/2000S-WA

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