



MICRO INVERTER

HCM300/400/500S(W)N

Reliable

- Comply with the PV rapid shutdown to protect the safety of rooftop PV system
- IP67 degree of protection, adaptable to diverse scenarios

Efficient

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

Simple

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

Intelligent

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



Technical Specifications

Product Model	HCM300SN HCM300WN		HCM400SN HCM400WN		HCM500SN HCM500WN	
Input (DC)						
Typical Module Compatibility (W)	240 - 450+		320 - 600+		400 - 670+	
Max. Input Voltage (V)	65					
Min./Max. MPPT Voltage (V)	16 - 60					
Start-up Input Voltage (V)	20					
Max. Input Current (A)	2*16					
Max. Short-circuit DC Input Current (A)	2*20					
Output (AC)						
Peak Output Power (VA)	300		400		500	
Max. Continuous Output Power (VA)	274		360		475	
Max. Continuous Output Current (A)	1.1	1.3	1.5	1.7	2	2.3
Nominal Output Voltage / Range (V) ¹	240/211-264	208/183-228	240/211-264	208/183-228	240/211-264	208/183-228
Nominal Frequency (Hz)	60					
Extended Frequency Range (Hz)	55 - 65					
Power Factor (default / adjustable)	> 0.99 / 0.8 leading...0.8 lagging					
THDi	< 3%					
Max. Units Per 10AWG Branch	28	24	21	18	16	14
Efficiency						
CEC 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)	188*178*25					
Degree of Protection	Outdoor-IP67 (NEMA6)					
Cooling	Natural cooling - No fans					
Weight (kg)	1.7					
Features						
Communication ²	Sub-1G Built-in WiFi					
Type of Isolation	High frequency transformers, Galvanically isolated					
Warranty	25 years					
Protection						
Input Reverse Connection Protection	Yes					
Output Overcurrent Protection	Yes					
Output Overvoltage Protection	Yes					
Anti-islanding Protection	Yes					
Output Short-circuit Protection	Yes					

Sub-1G: HCM300/400/500SN

Built-in WiFi: HCM300/400/500WN

N indicates meeting the North American market standards

※ Design and specifications are subject to change without notice.

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