

Realize the Value of Light With Innovative Products

# CP80HL - CP110HL

## CP Solar Inverter



### High Yield

- 9 MPPT to achieve maximum power output for complex application scenarios;
- SiC power components to increase power generation;
- 150% PV array oversizing, 110% AC output overloading, 16 A input current per string to compatible with bifacial and large PV modules;
- Integrated anti-PID (Potential Induced Degradation) functions, Significantly reduce the negative effect of PID;
- Low start-up voltage and wide MPP voltage for more power generation time ;



### Safe and Reliable

- Aluminum die casting shell with reinforcing bars, 3 layer effective waterproof design, to resist harsh environment;
- Adapt film bus capacitors to improve reliability of system;
- Type II AC&DC Surge Protection;
- IP66 protection rating, C5 anti-corrosion rating, high environmental adaptability system Integration;
- Supports AFCI Protection, preventing sparking or arcing that may potentially cause an electrical fire;



### User-friendly

- Independent AC terminal box design, save 30% installation time;
- Firmware update remotely or by USB interface;
- Online monitoring by slenergy Smart M app. via RS485/USB/Bluetooth, supports 4G/WiFi;
- Quick & Easy-to-install with basic tools, LED indicators for different status;



### Smart Management

- Support intelligent automatic I-V curve scanning for fault diagnosis, precise positioning of the abnormal string;
- Free online real-time monitoring of system power generation and energy management for end user, installer and retailer;

Model	CP80HL	CP90HL	CP99HL	CP100HL	CP110HL
<b>Input Data (DC)</b>					
Max. Input Power	120 kw	135 kw	148.5 kw	150 kW	165 kW
Max. DC Voltage	1100 V				
Start-up Voltage	180 V				
Nominal Voltage	600 V				
MPPT Voltage Range	200-1000 V				
No. of MPP Trackers	9				
No. of PV Strings per MPP Tracker	2				
Max. Input Current per MPP Tracker	32 A				
Max. Input Short-circuit Current per MPPT	40 A				
<b>Output Data (AC)</b>					
Nominal Output Power	80 kw	90 kw	99 kw	100 kW	110 kW
Max. AC Apparent Power	88 kVA	90 kVA	109 kVA	110 kVA	121 kVA
Nominal AC Voltage	3L/N/PE, 220 V / 380 V, 230 V / 400 V				
AC Grid Frequency	50/60 Hz				
Frequency Range	(45-55) / ( 50 ) Hz				
Max. Output Current (PF=0.9)	128 A	144 A	158 A	166.7 A	175 A
Power Factor	> 0.99 (Rated)				
Adjustable Power Factor Range	0.8 leading...0.8 lagging				
Max. Total Harmonic Distortion	<3% (Rated Power)				
<b>Efficiency</b>					
Max. Efficiency	98.5%				
European Efficiency	98.1%				
MPPT Efficiency	99.9%				
<b>Protection</b>					
Anti-flow Protection	Optional				
DC Reverse Polarity Protection	Yes				
DC Switch	Yes				
DC Surge Protection	Type II				
Insulation Resistance Monitoring	Yes				
Residual-current Monitoring Unit (GFCI)	Yes				
AC Short-circuit Protection	Yes				
AC Surge Protection	Type II				
Grid Monitoring	Yes				
Anti-islanding Protection	Yes				
String Fault Monitoring	Yes				
AFCI Protection	Optional				
<b>General Data</b>					
Dimensions (W×H×D)	1040 x 700 x 350 mm				
Weight	88 kg				
Operating Temperature Range	-25°C~+60°C (> 45°C derating)				
Relative Humidity	0-100%				
Altitude	4000 m (> 3000 m derating)				
Self-consumption at Night	<4 W				
Topology	Transformerless				
Cooling	Intelligent Air Cooling				
Protection Rating	IP66				
Guarantee Period	5 Years / 10 Years (Optional)				
Display	LED				
Communication	Yes:RS485/USB/Bluetooth, Optional:4G/WiFi				