



# CP80HL – CP110HL

## CP SOLAR INVERTER



### High Yield & Efficiency

- Maximum power generation time with low start up voltage and wider MPPT Voltage.
- Anti Potential Induced Degradation (PID) integrated function reducing the negative effect of PID.
- 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.



### Aesthetic & Compact

- Screw free cover design, integrated molding box without welding, good aesthetic & product stability and consistency.
- Aluminum die casting shell with reinforcing bars, 3 layer effective water-proof design, to resist harsh environment.
- Light weight, small volume and compact size.



### Safe & Reliable

- LED | LCD display for real time data.
- Type II AC&DC Surge Protection.
- Supports AFCI Protection, preventing sparking or arcing that may potentially cause an electrical fire.
- Adapt film bus capacitors to improve reliability of system.
- High Environmental Adaptability system Integration, IP66 protection rating, C5 anti-corrosion rating.
- Built in RS485, supports WIFI and 4G, Firmware update remotely or by USB interface.



### Smart Management

- Energy management through free online monitoring, remote firmware update with customizable settings.
- Supply Priority programmable for PV, Battery & Grid.
- Free online monitoring to enhance energy management for end user, installer and retailer.

Model No.	CP80HL	CP90HL	CP99HL	CP100HL	CP110HL
<b>Input Data (DC)</b>					
Max. Input Power	120kW	135kW	148.5kW	150kW	165kW
Max. DC Voltage	110V				
Start-up Voltage	180V				
Nominal Voltage	600V				
MPPT Voltage Range	200-1000V				
No. of MPP Trackers	9				
No. of PV Strings per MPP Tracker	2				
Max. Input Current per MPP Tracker	32A				
Max. Input Short-circuit Current per	40A				
<b>Output Data (AC)</b>					
Nominal Output Power	80kW	90kW	99kW	100kW	110kW
Max. AC Apparent Power	88kVa	99kVa	109kVa	110kVa	121kVa
Nominal AC Voltage 3L/N/PE, Range	3L/N/PE,220v/380,230/400v				
AC Grid Frequency	50/60Hz				
Frequency Range	45-55Hz				
Max. Output Current (PF=0.9)	128A	144A	158A	166.7A	175A
Power Factor	>0.99%(Austalile fram leedingto 8.8 legging)				
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 (wx HxD)	1040x 700 x350 mm				
Weight	88Kg				
Operating Temperature Range	-25 c ~+ 60 c				
Relative Humidity	0-100 %				
Altitude	4000 m(>2000 m derating )				
Self-consumption at Night	<4W				
Topology	Transformerless				
Cooling	Intelligent Air Cooling				
Protection Rating	Ip66				
Guarantee Period	10 / 25 Year (Optional)				
Display	LED				
Communication	Yes				