



CP30HL - CP60HL

CP SOLAR INVERTER

High Yield & Efficiency

- Low start-up voltage and wide MPPT voltage for more power generation time.
- 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

- Integrated molding box with screw free cover without welding for product stability, consistency and aesthetic.
- Water proof three layered aluminum die cast shell with reinforcing bar to withstand harsh environment conditions.
- 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.
- Improved reliability with adaption of film bus capacitors.
- IP66 protection rating, C5 anti-corrosion rating, high environmental adaptability system Integration.
- Built in RS485, supports WIFI and 4G, Firmware update remotely or by USB interface.

Smart Management

- Remote firmware update and customizable settings.
- Programmable supply priority for PV, Battery or Grid.
- Energy management through free online monitoring.

Model No.	CP30HL	CP33HL	CP36HL	CP40HL	CP45HL	CP50HL	CP60HL
Input Data (DC)							
Max. Input Power	45kW	49.5kW	54kW	60kW	67.5kW	75kW	80kW
Max. DC Voltage	1100V						
Start-up Voltage	180V						
Nominal Voltage	600V						
MPPT Voltage Range	200-1000V						
No. of MPP Trackers	3	3	3	4	4	4	4
No. of PV Strings per MPP Tracker	2						
Max. Input Current per MPP Tracker	32A						
Max. Input Short-circuit Current per	40A						
Output Data (AC)							
Nominal Output Power	30kW	33kW	36kW	40kW	44kW	50kW	60kW
Max. AC Apparent Power	33kVa	36kVa	39.6kVa	45kVa	49.5kVa	55kVa	60kVa
Nominal AC Voltage 3L/N/PE, Range	230/400v,3L/N/PE or 3L/PE						
AC Grid Frequency	50/60Hz						
Frequency Range	45-55Hz						
Max. Output Current (PF=0.9)	48.3A	54.5A	60A	66.7A	75.04A	84.1A	92A
Power Factor	>0.99%						
Adjustable Power Factor Range	0.8 leading ... 0.8 lagging						
Max. Total Harmonic Distortion	<3% (Rated Power)						
Efficiency							
Max. Efficiency	98.4%						
European Efficiency	98.2%						
MPPT Efficiency	99.9%						
Protection							
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						
General Data							
Dimensions (W x H x D)	590 x 480 x237 mm						
Weight	32 kg	32kg	32kg	34kg	34kg	35kg	36kg
Operating Temperature Range	-25 °C ~+ 60 °C						
Relative Humidity	0-100 %						
Altitude	4000 m (>2000 m derating)						
Self-consumption at Night	<1W						
Topology	Transformerless						
Cooling	Intelligent Air Cooling						
Protection Rating	IP66						
Guarantee Period	10 / 25 Year (Optional)						
Display	LED						
Communication	Yes						