



CP30HL - CP50HL

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
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Input Data (DC)						
Max. Input Power	45kW	49.5kW	54kW	60kW	67.5kW	75kW
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
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
Max. AC Apparent Power	33kVa	36kVa	39.6kVa	45kVa	49.5kVa	55kVa
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
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)					

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 (wx HxD)	590 x 480 x237 mm					
Weight	32 kg	32kg	32kg	34kg	34kg	35kg
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					