

ON GRID INVERTER

PHT 20-25 KW

THREE PHASE



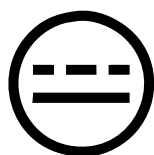
The PHOTON ON-GRID is a reliable and efficient solar inverter that's designed for residential solar energy systems. This inverter is known for its high efficiency and ease of use, and it's capable of converting up to 98.6 % of the DC electricity it receives into usable AC electricity.

FEATURES



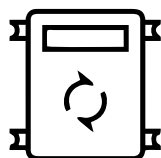
Peak Efficiency

98.6 %



Max DC Overload

50 %



Die Casting

Aluminium Alloy



MES + FCT + CRM

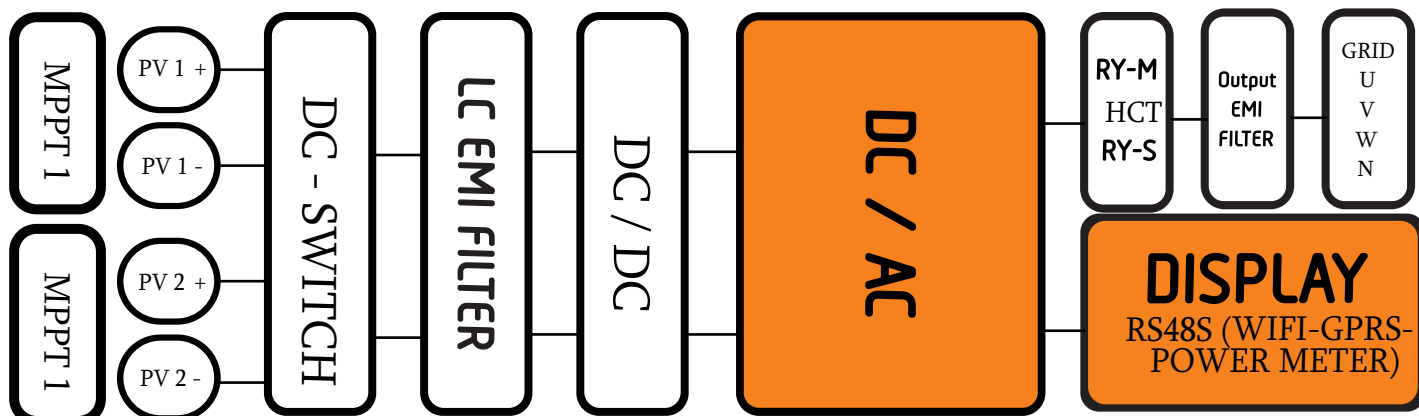
Infrastructure



Protection Type

Ip66

BLOCK DIAGRAM



PHT Ongrid Series 20-25 KW

- Converts up to 98.6% of DC electricity into usable AC electricity, ensuring optimal efficiency.
- Built with an IP66-rated design, offering superior durability and protection against dust and water.
- Features die-cast aluminum alloy infrastructure for enhanced heat dissipation and long-term reliability.
- equipped with advanced EMI filters for stable and interference-free power output.
- Backed by a 10-year warranty, ensuring peace of mind and confidence in quality.



Parameter	PHT-20000	PHT-25000
Input / DC		
Max. PV Power (Wp)	30000	37500
Max. Input Voltage (V)	1100	1100
MPPT Voltage Range (V)	150-1000	150-1000
Min. DC Voltage (V)	150	150
Nominal DC-Input Voltage (V)	620	620
Max. Input Current (A)	16+16	16+16
Max. Short DC Current (A)	20+20	20+20
No. of Independent MPPT Inputs	2	2
No. of PV Strings Per MPPT	2	2
Output / AC		
Rated Power (W)	20000	25000
Max. Apparent AC Power (VA)	22000	27500
Rated Grid Voltage (Vac)	220/380:230/400	220/380:230/400
Rated Power Frequency (Hz)	50/60	50/60
Max. Output Current (A)	31.9	39.9
Displacement power factor	0.8 leading-0.8 lagging	0.8 leading-0.8 lagging
THDI at Rated Power	<3%	<3%
Grid Connection	3L-N-PE	3L-N-PE
Efficiency		
Max. Efficiency	98.6%	98.6%
MPPT Efficiency	99.9%	99.9%
Insulation Resistor Detection	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated
Surge Protection	Integrated, DC Type II / AC Type II	Integrated, DC Type II / AC Type II
General Data		
Dimensions (WHD mm)	481*351*168	481*351*168
Weight (Kg)	20	<45
Noise Emission (Typical) db(A)	<45	<45
User Interface	LCD&LED or LED	LCD&LED or LED
Communication	RS485/Wi-Fi/GPRS(Optional)	RS485/Wi-Fi/GPRS(Optional)
Operating Ambient Temperature Range (°C)	-25°C to +60°C	-25°C to +60°C
Allowable Relative Humidity Range	0% - 100%	0% - 100%
Max. Operating Altitude (m)	3000 (>2000 derating)	3000 (>2000 derating)
Degree of Protection (IEC 60529)	IP66	IP66
Isolation Method	Transformerless	Transformerless
Power Loss in Night Mode (W)	<1W	<1W