

ON-GRID INVERTER

PHT 5-15 K

THREE PHASE

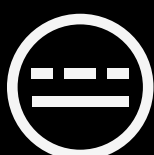


The PHOTON ON-GRID is a reliable and efficient solar inverter that's designed for residential solar energy systems. This inverter is known for its high efficiency and ease of use, and it's capable of converting up to 98.6 % of the DC electricity it receives into usable AC electricity.

FEATURES



Peak Efficiency
98.6 %



Max DC Overload
50 %



Die Casting
Aluminium Alloy

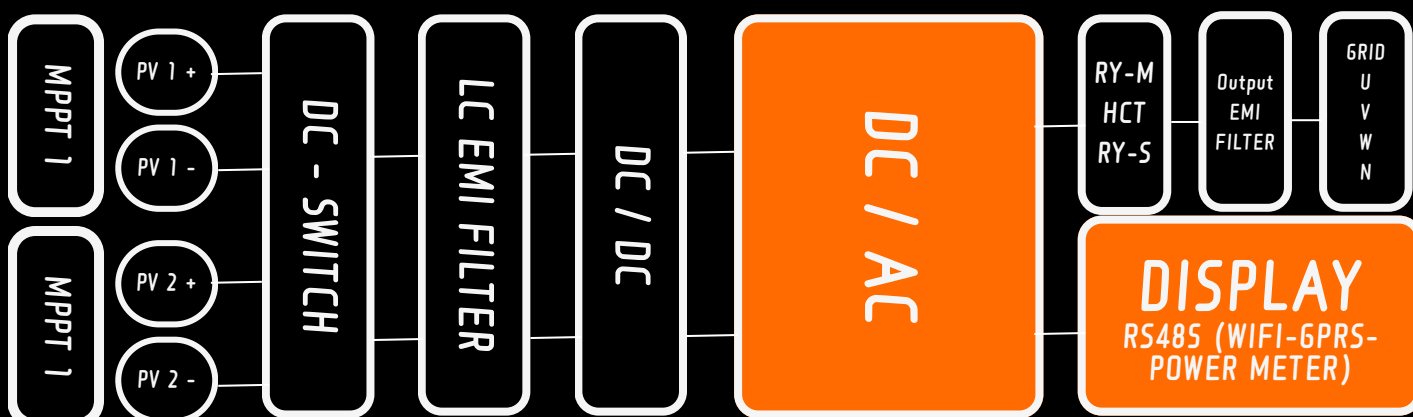


MES + FCT + CRM
Infrastructure



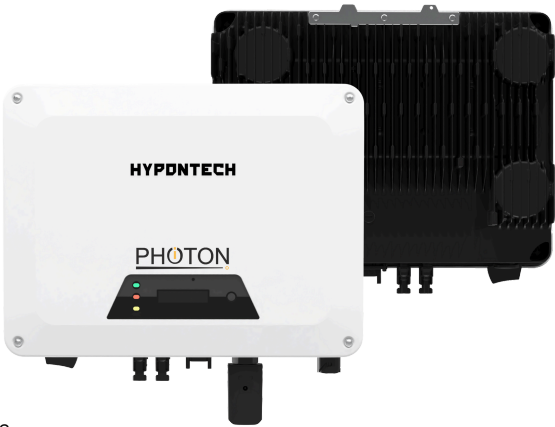
Protection Type
IP66

BLOCK DIAGRAM



PHT Ongrid Series 10-15 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-10000	PHT-15000
Input / DC		
Max. PV Power (Wp)	10000	15000
Max. Input Voltage (V)	1000	1000
MPPT Voltage Range (V)	200-900	200-900
Min. DC Voltage (V)	150	150
Nominal DC-Input Voltage (V)	620	620
Max. Input Current (A)	20	26
Max. Short DC Current (A)	20	40
No. of Independent MPPT Inputs	2	2
No. of PV Strings Per MPPT	1	1
Output / AC		
Rated Power (W)	10000	15000
Max. Apparent AC Power (VA)	10000	16500
Rated Grid Voltage (Vac)	380/400	380/400
Rated Power Frequency (Hz)	50/60	50/60
Max. Output Current (A)	15.2	26
Max. Output Overcurrent Protection (A)	25	40
Inrush Current (Peak and Duration)	18.4A @ 0.214ms	39.6A @ 320us
Max. Output Fault Current (Peak and Duration)	35.5A @ 420us	39.6A @ 320us
Adjustable Displacement Power Factor	0.8ind to 0.8cap	0.8ind to 0.8cap
THDI at Rated Power	<3%	<3%
Efficiency		
Max. Efficiency	98.2%	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
General Data		
Dimensions (WHD mm)	425*436*160	425*351*200
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