

Outdoor MW Integrated PV Power Plant

PHX 1MW



This product adopts all-in-one integration technology. Its inverter adopts integrated DC distribution cabinet design with smaller footprint, which greatly shortens the construction time of power plants. Its transportation, installation and maintenance are one-stop completed. It is ideal for the construction of outdoor PV power plants.

Features

- Integrated technology; stable and reliable performance; convenient installation
- IP54 for outdoor use
- High efficient IGBT components
- Wide DC input range for flexible configuration of PV array
- Advanced MPPT algorithms
- Efficient thermal system design adapting to harsh environment
- ZVRT (Zero Voltage Ride Through) function
- Active power 0 ~ 100% adjustable
- Reactive power 0.9 (leading) ~ 0.9 (lagging) adjustable
- TUV, CE, CQC certification

Communications

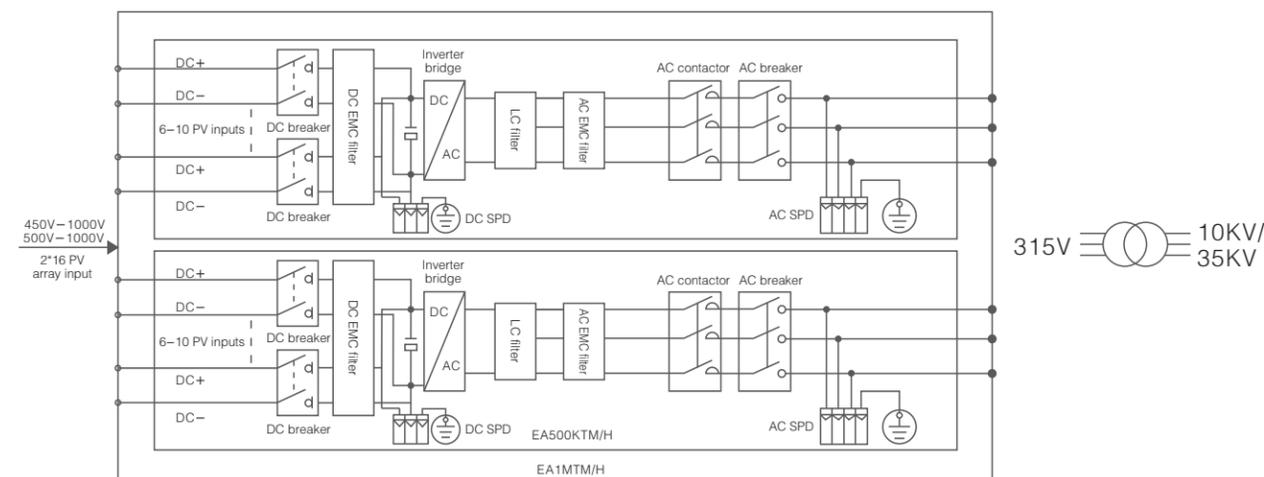
RS485 / Ethernet / USB, Computer monitoring software

Safety

Effective protection functions: DC / AC breaker protection, DC / AC overcurrent protection, DC / AC overvoltage / undervoltage protection, overtemperature, grid real-time monitoring, insulation monitoring, grounding fault protection, fan fault protection etc.

Standards complied: EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-3-2, EN61000-3-3, EN60164-1-1, EN55022, EN50178, EN45011

Principle diagram



Technical Data

MODEL	PHX 1M-TM	PHX 1M-TH
INPUT (DC)		
Max. DC power	1120 KWp	
Max. input voltage	1000 V	
Starting voltage	505 V	
Min. operating voltage	500 V	
Max. input current	2200 A	
MPPT voltage range	500 ~ 850 V	
Number of DC cabinet input terminals	8 ×2	
OUTPUT (AC)		
Rated power	1000 KW	
Max. AC output power	1100 KW	
Max. output current	2016 A	
Current distortion	< 3% (> 30% rated power)	
Rated grid voltage	315 V	
Grid voltage tolerance	245 ~ 362 V (settable)	
Rated grid frequency	50 Hz / 60 Hz (settable)	
Grid frequency tolerance	47 ~ 51.5 Hz / 57 ~ 61.5 Hz (settable)	
Power factor	> 0.99	
DC current component	< 0.5% (rated output current)	
Adjustable power factor range	0.9 (leading) ~ 0.9 (lagging)	
Isolation transformer	None	
EFFICIENCY		
Max. conversion efficiency	98.7%	
Europe efficiency	98.5%	
OTHERS		
Display	Touch screen	
Exhaust air volume	15987 m / h	
Communications	RS485, Ethernet, USB (optional)	
Altitude	6000 m (> 3000 m derating)	
Cooling	Temperature control forced-air cooling	
IP rating	IP 54	
Self-consumption (at night)	< 200 W	
Relative humidity	0 ~ 95% non-condensing	
Ambient temperature	-25°C ~ +55°C	
Dimensions (W × D × H) (mm)	2800 × 2038 × 2591	
Weight (kg)	4000	

Disclaimer:
 • These data in this document are tested under specified conditions. It may result in difference between actual results and these data due to some uncertain factors. The statement about this product is for reference only. It makes no representation or warranty.
 • All specifications subject to change without notice.