

Containerized Central Inverter

EA1 MTM / EA1.26 MTM



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 certified

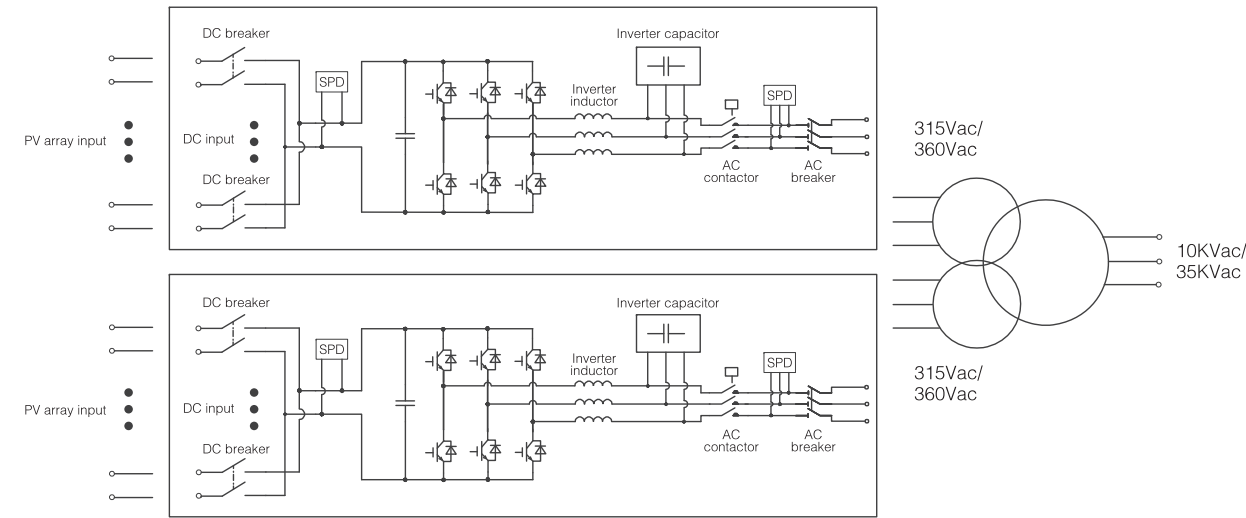
Communications

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

Schematic Diagram



EA1MTM / EA1.26 MTM container

Technical Data

MODEL	EA1MTM	EA1.26MTM
INPUT (DC)		
Max. DC power	1120 kWp	1410 kWp
Max. input voltage	1000 V	
Starting voltage	505 Vdc	570 Vdc
Min. operating voltage	460 Vdc	520 Vdc
Max. input current	2440 A	2712 A
MPPT voltage range	460 ~ 850 V	520 ~ 850 V
Number of DC cabinet input terminals	8 × 2	10 × 2
OUTPUT (AC)		
Rated power	1000 kW	1260 kW
Max. AC output power	1100 kVA	1386 kVA
Max. output current	2016 A	2222 A
Current distortion	< 3% (> 30% rated power)	
Rated grid voltage	3 ~ 315 Vac	3 ~ 360 Vac
Grid voltage tolerance	252 ~ 362 V (settable)	288 ~ 414 V (settable)
Rated grid frequency	50 Hz / 60 Hz (settable)	
Grid frequency tolerance	45 ~ 55 Hz / 55 ~ 65 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	12400 m³ / h	
Communications	RS485, Ethernet, USB (optional)	
Altitude	6000 m (> 3000 m derating)	
Cooling	Temperature control forced–air cooling	
IP rating	IP 54	
Night self–consumption	< 200 W	
Relative humidity	0 ~ 95% non–condensing	
Ambient temperature	–25℃ ~ +65℃ (derating for above 55℃)	
Dimensions (W × D × H) (mm)	2850 × 1250 × 2591	
Weight (kg)	3000	

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.