

320kW String Photovoltaic Inverter



Features & Benefits



High Yield

- Max. efficiency 99.01%, China efficiency 98.5%
- 12 MPPTs, single MPPT max DC is 40A
- Perfect match 182 and 210 series modules, max capacity ratio over 1.4
- Fully adapt to ground-mounted power plants in various terrains, increase power generation



Intelligent Security

- Compatible with IEC61850 protocol, high real-time
- Intelligent string detection and I-V scanning
- AC-DC dual power supply redundancy design with 24-hour status monitoring
- Reserved energy storage interface to support bidirectional energy flow and facilitate power scheduling



Cost Saving

- High bandwidth PLC communication, saving communication cables and construction cost
- Support for aluminum wire access, saving power cable cost
- All-weather SVG function, saving investment cost
- EAST SolarCloud support, saving operation and maintenance cost



High Reliability

- Whole machine protection grade IP66, anti-corrosion class C5, can adapt to various harsh environments
- Standard configure DC trip switch with more reliable
- Intelligent speed regulation speed, low temperature rise, long life
- Open data interface, friendly data interoperability

Parameter/Model	EA320KTL5I
DC Parameters	
Max. input power	480kW
Max. input voltage	1500Vdc
Number of MPPTs/String number	12/30
MPPT max. current	40A
AC Parameters	
Rated output power	320kW
Max. output power	352kW
Rated output AC voltage/range	800V/640V~920Vac
Rated output AC frequency/range	50Hz, 60Hz/±5Hz
Rated output current	231A
Max. output current	254A
Power factor	-0.8~+0.8(adjustable)
Grid-connected harmonic current	<3%
Grid type	Three phase IT system
Efficiency	
Max. efficiency	99.01%
China efficiency	98.50%
Protection	
Input DC switch	Support
Input overcurrent protection	Support
Input reverse protection	Support
Output overvoltage protection	Support
Output overcurrent protection	Support
Anti-islanding protection	Support
DC surge protection	Support
AC surge protection	Support
Insulation resistance protection	Support
PID protection and recovery	Support
String detection	Support
High voltage ride-through	Support
Low voltage ride-through	Support
General Parameters	
Enclosure dimensions(WxHxD)(mm)	1100×920×365mm
Weight(kg)	<120kg
Operation temperature range	-30°C~60°C
Cooling method	Intelligent air cooling
Protection grade	IP66
Anti-corrosion class	C5
Altitude	4000m
Nighttime self-consumption	<5W (determined by testing, no higher than 10W)
Communication interface	RS485/PLC
Standards	GB/T 37408-2019, GB/T 37409-2019, NB/T 32004-2018