LV Single-phase Inverter
YF-LV-P1E Series

aurora
OPTOELECTRONIC



Features

- 1.5× PV Oversizing, Supports Battery Charging at Full Load
- 150% Peak Load Capability for Demanding Applications
- Dual MPPTs with 4 PV Strings, Up to 550V per String
- <10 ms On-grid/Off-grid Switching for Backup Power
- Max. 200A Charge/Discharge for High-capacity Battery Cells
- IP65-rated LCD, Supports Real-time Monitoring via App

Datasheet

Model	YF-LV-P1E-8048
INVERTER INPUT / OUTPUT (GRID)	
Rated Power	8 kW
Rated Voltage	220 / 230 / 240 V a.c., L+N+PE
Rated Frequency	50 / 60 Hz
Power Factor Range	0.8 leading - 0.8 lagging
Switch Time	<10 ms
Current (Maximum Continuous)	34.8 A a.c.
Max Output Overcurrent Protection	250 V a.c. / 100 A a.c.
BATTERY	
Battery Type	Lithium / Lead-acid
Battery Voltage Range	45 - 58 V d.c.
Rated Battery Voltage	51.2 V d.c.
Max Charge Current	180 A d.c.
Max Discharge Current	180 A d.c.
Reverse Connect Protection	Yes
PV INPUT	
No. of MPPT Tracker / Strings	2 / 2+2
Max. PV Array Power	12 kW
Max DC Voltage	550 V d.c.
MPPT Voltage Range	120 - 500 V d.c.
Start-up Voltage	120 V d.c.
Max. Input Current	26 / 26 A d.c.
Isc PV (Absolute Maximum)	34 / 34 A d.c.
AC OUTPUT (EPS) / GENERATOR	
EPS Rated Output Voltage	220 / 230 / 240 V a.c., L+N+PE
EPS Rated Output Frequency	50 / 60 Hz
EPS Rated Output Active Power	8 kW
EPS Rated Output Apparent Power	8 kVA
EPS Rated Output Current	34.8 A a.c.
Overload Capacity (Off Grid)	110%, 600s / 120%, 10s / 150%, 0.02s
EFFICIENCY	
MPPT Efficiency	99.20%
Euro-efficiency	96.50%
Max. Efficiency	97.00%
PROTECTION & FEATURE	
Insulation Monitoring	Yes
Residual Current Monitoring	Yes
Parallel Function	Yes
Protection Degree	IP65
Certifications	EN IEC 62109-1/2, EN IEC 62477-1 etc.
Other Protection	Over voltage, Over current, Over temperature, Short circuit, Active anti-islanding etc.
GENERAL PARAMETER	
Storage Temperature	-25°C - +60°C
Operating Temperature	-25°C - +60°C (linearly derating to 10% when exceeding +45°C through +60°C)
Humidity	0-95% (Non-condensing)
Altitude	2000 m (>2,000 m derating)
Noise	<60 dB
Warranty	5 years
Machine Dimension (W*H*D)	361*545*222 mm
Machine Weight / N.W.	25 kg
DISPLAY & COMMUNICATION	
Display	LCD + APP
Interface	RS485 / CAN / WiFi / Bluetooth

• The AC voltage and frequency range can differ according to the grid standards of each country.
• Please note that all specifications are subject to change without prior notice.