LV Single-phase Inverter
YF-LV-P1E Series

aurora
OPTOELECTRONIC

IP66
WATERPROOF



Features

- Max.275A Charge/Discharge for High-Rate Battery Support
- 3 MPPTs with 150% PV Oversizing for Higher Yield
- Wide MPPT Range(80-480V) for Complex Rooftop Design
- <10ms UPS-Level Switching for Critical Load Continuity
- MAX. Support 6 Units In Parallel
- AC Coupling Ready for Easy Retrofit and System Upgrade

Datasheet

Model	YF-LV-P1E-12048
Inverter Input/Output(Grid)	
Rated Power	12kW
Rated Voltage	220/230/240VAC, L+N+PE
Rated Frequency	50/60Hz
Power Factor Range	0.8 leading~ 0.8 lagging
Switch Time(ms)	<10
Current(Maximum Continuous)	52.2A
Max Output Overcurrent Protection	100A
Battery	
Battery Type	Lithium/Lead-acid
Battery Voltage Range	40~60VDC
Rated Battery Voltage	51.2VDC
Max. Charge Current	250A
Max. Discharge Current	250A
Reverse Connect Protection	Yes
PV Input	
No. Of MPPT Trackers/Strings	3/2+2+2
Max. PV Array Power	18kW
Max. DC Voltage Range	550VDC
MPPT Voltage Range	80~480VDC
Start-up Voltage	120VDC
Max. Input Current	3*26A
Isc PV(Absolute Max.)	3*39A
AC Output(EPS)	
EPS Rated Output Voltage	220/230/240VAC, L+N+PE
EPS Rated Output Frequency	50/60Hz
EPS Rated Output Active Power	12kW
EPS Rated Output Apparent Power	12kVA
EPS Rated Output Current	52.2A
Overload Capacity(Off Grid)	110%(<60s)/120%(<30s)/150%(<10s)
Efficiency	
MPPT Efficiency	99.9%
Euro-efficiency	96.5%
Max. Efficiency	97.3%
Protection & Feature	
Insulation Monitoring	Yes
Residual Current Monitoring	Yes
Parallel Function	Yes, up to 6 pcs
Protection Degree	IP66
Certifications	ENIEC62477-1, ENIEC 62109-1/2, ENIEC61000-6-1, EN50549-1, G99, NTS631, UNE217002:2020 etc.
Other Protection	Overload, Overtemperature, Short circuit , Active anti-islanding method etc.
General Parameters	
Storage Temperature	-25°C~60°C
Operating Temperature	-25°C~+60°C(Linely deratingto 60% when exceed +45°C~+60°C)
Humidity	0-100%(Non-condensing)
Altitude	4000(>2000 Derating)
Noise	<45dB
Machine Dimension	600*466*252mm
Machine Weight/N.W.	40kg
Display & Communication	
Display	LCD+APP(Optional: LED+App)
Interface	CAN/RS485/Bluetooth/WiFi(Optional:4G/DRM)

***Test conditions: 0.5C charge/discharge, @25°C, 80% DOD; product specifications are subject to change without prior notice.**

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