Commercial ESS
YF-ESS Series

aurora
OPTOELECTRONIC



Features

- Highly integrated
  All pre-assembled
  Extendable
- Intelligent cooling system
  <10ms Switching Off /On-grid
- DC electric circuit safety protection
  Multi level battery protection
  Fire suppression system
- Intelligent cloud platform management, real-timemon itoring of operational status
- Convenient Installation
- Reliable Performance

Datasheet

Model	YF-ESS-112AF
Battery Type	LiFePO4
Battery Pack Configuration	16.076kWh/1P16S
Battery System Configuration	112.53kWh/1P112S
Battery System Rated Voltage	358.4V
Battery Voltage Range	313.6 - 408.8V
Charge And Discharge Rate	0.5C
Rated Power	50KW/60KW
Recommended Maximum PV Module Power	100kW
Maximum PV Input Voltage	1000Vdc
MPPT Voltage Range	150 ~ 850Vdc
Maximum Input Current	8*20A
Output Rated Voltage	3W/N/PE, 220 V / 380 V, 230 V / 400 V
Rated Grid Frequency	50/60Hz
Power Factor	>0.99
Power Factor Adjustable Range	-1,+1
Fire Suppression System	Aerosol fire extinguishing
System Cycle Times	≥8000 cycles @25℃, 0.5P/0.5P
Communication Port	RS485/CAN/LAN
Protection Level	IP55
Cooling Method	Smart air cooling
Operating Temperature	-20℃ - +50℃
Storage Temperature	-20℃ - +45℃
Relative Humidity	15% - 90%(Non-condensing)
Recommended Discharge Depth	0°C ~ 35°C
Operating Altitude	≤3000m
Dimension(WxDxH)	1050 x 1180 x 2250mm
Weight	≈1380Kg
Compliance	IEC 62619, IEC 61000, UN 38.3, MSDS

***BMS warranty: 5 years. Battery cell warranty: 10 years.**
***Test conditions: 0.5C charge/discharge, @25°C, 80% DOD; product specifications are subject to change without prior notice.**