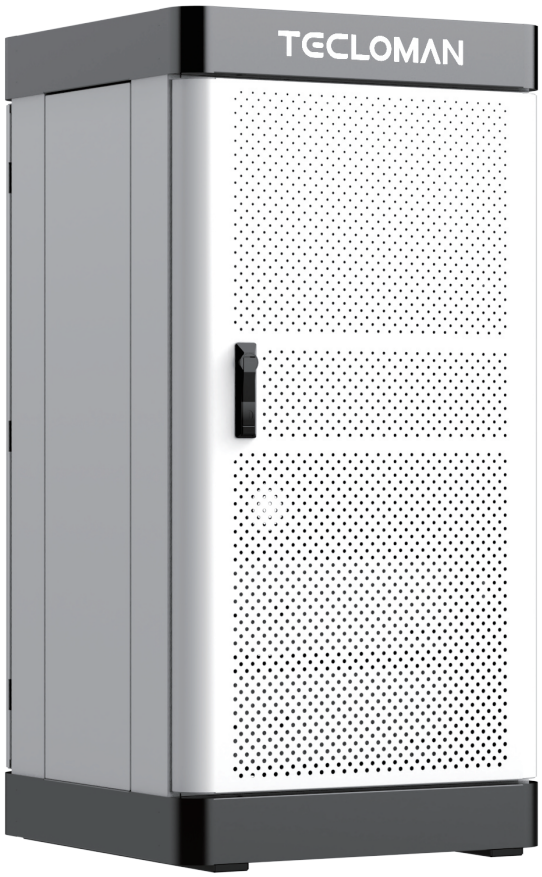
TECLOMAN

Firefly ECO Residential Energy Storage System (low Voltage All-in-one Type)

Firefly-E3-5/E3-10/E3-15/E3-20



UN38.3

CE

- Integrateddesign,withnoneedtoseekforothermatchinginverterandbattery
- Multipleprotectionoffersasafeandreliableuse
- Completesystem,minimalistdesign,simpleinstallationandwiring
- Intelligentbatterymanagementsystemensuresthehealthandsafetyofbatterycathodes
- AdvancedMPPTalgorithmachievingmaximizePVutilization
- AvailableforCAN,RS485,Wi-FiandGPRScommunication;
- EPSloadenablesundisturbedswitching
- Self-producedlithiumironphosphatebatterycathode

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Model	Firefly-E3-5	Firefly-E3-10	Firefly-E5-15	Firefly-E5-20
AC input power	3000VA	3000VA	5000VA	5000VA
AC output power	3000W	3000W	4600W	4600W
PV power	6000W			
Maximum photovoltaic voltage	550Vdc			
PV voltage range	120- 500Vdc			
MPPT number	2			
Maximum PV input current	10A	10A	12.5/12.5A	12.5/12.5A
Battery capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Rated battery voltage	51.2Vdc			
Battery charge & discharge efficiency	＞98%			
AC output voltage	230Vac (180-270 Vac)			
Grid frequency	50/60Hz (45-55/55-65Hz)			
Power factor	Adjustable, 0.8 (advance) ~ 0.8 (lag)			
EPS Max Capacity (No PV/With PV)	3600VA/4600VA			
EPS Rated Output Power(No PV)	3000W			
EPS Rated Output Current (No PV)	13A			
Wiring mode	L/N/PE			
Communications	CAN/RS485/Wi-Fi			
Operation ambient temperature 2	-10-45°C			
Operation Humidity	5~90%RH			
Protection Grade	IP20			
Altitude	＜2000m			
Noise	＜25dB			
Cooling method	Natural cooling			
Dimensions (W*D*H±2mm)	650×700×1300 mm	650×700×1300 mm	650×700×1620 mm	650×700×1620 mm
Weight (±0.2kg)	80kg	123kg	166kg	210kg
Certification & Safety Standards	CE/UN38.3			

1.Test conditions: ambient temperature 25 ± 5 °C, relative humidity 60 ± 25%RH, atmospheric pressure 86 kPa~106 kPa, 90%DOD, 0.2C charge/discharge, charge/discharge mode: CC-CV/CC.The actual available electric energy of the system is affected by the ambient temperature, the operating power and efficiency of the power module and other factors;
2.Affected b batter characteristics char in at 0 ~ 15 °C will be derated and char in below 0 °C cannot be erformed.