Erasmus

Integrated BESS for Grid Applications

UL9540A certified



SOLUTION AND PRODUCT FEATURES

Smart management

- Integrated local EMS, suitable for various PV+ESS applications
- Cloud control, system-level remote monitoring, remote upgrade
- Battery healing function to prolong battery life.

Safe and Reliable

- Support long life cycle battery cell
- Liquid cooling
- Multi-level safety

High Performance

- Support 10ms on-grid and off-grid switching
- Support 200% DC/AC ratio, make full use of PV charging, provide long backup hours
- Supports 100% unbalanced loads on both the grid and backup port

SYSTEM SPECIFICATION	
Models	30kW/100kWh
Max. PV Input Power	60kW
Rated Battery Energy	104.49kWh
Max. Output Power	30kW
Max. Apparent Output Power (on-grid)	30kVA
Max. Apparent Output Power (off-grid)	1.6 times of rated power, 2 s
Back-up Switch Time	<10ms
Rated AC Voltage	3/N/PE, 230 V / 400 V
Rated Frequency	50 Hz/60Hz
Max. Input/Output Current (grid side)	86.6A/43.3A
Max. Output Current (back-up side)	43.3A
Power Factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi (on-grid)	< 3%
THDv (off-grid)	< 2%
PV SPECIFICATION	
Max. Recommended PV Array Power	60kW
Max. PV Input Voltage	1000V
Start-up Voltage	180V
Nominal PV Input Voltage	600V
MPPT Voltage Range	150-850V
No. of MPP Trackers/Strings per MPPT	3/2
Max. Input Sshort Circuit Current per MPPT	40A
BATTERY SPECIFICATION	
Battery Type	LFP 314
Rated Battery Capacity	104.49kWh
Battery Configuration	1P52S*2
Battery Rated Voltage	332.8V
Battery Voltage Range	291.2～379.6V
Rated Charge Current	135A
Rated Discharge Current	108A
Rated Charge Power	45kW
Rated Discharge Power	36kW

Note: The system will derate when the temperature exceeds 45 C

Contact: sales@marsrenewable.com
Edition: VEN1.3

*All illustrations and data may differ from standard product, Subject to change without notice.

GENERAL PARAMETERS	
Dimensions without Inverter (WxHxD)	910*1920*1550mm
Dimensions with Inverter (WxHxD)	1231*1920*1550mm
Weight without Inverter	<1500kg
Weight with Inverter	<1600kg
Operating Ambient Temperature Range	-25°C~55°C
Relative Humidity	0 ~ 95% RH (non-Condensing)
Max. Operating Altitude	3000m
PCS Max. Efficiency	97.8%
PCS EU Efficiency	97.4%
Anti-Corrosion Grade	Cabinet: C4; Inverter: C5
Protection Degree	Cabinet: IP55; Inverter: IP66
Aux. Power Supply	Self-powered
Fire Protection System	Water pipe, Aerosol (optional), Explosion relief valve
Certification	IEC62619, IEC62477, IEC 63056, IEC61000,EN50549, UN38.3, UN3480, RoHS, CEI0-21, UL9540A

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