

Commercial Battery

E-MATE-114R-229R | High Voltage | 114.6~229.3kWh



Easy Maintenance

Standard rack&module design, reducing footprint and easing front maintenance.



Safe and Reliable

LFP battery cells offer 6,000 cycles of longevity, self-developed 2-level/3-level BMS, and indoor battery rack with IP20.



Cell Balancing Tech

Advanced cell balancing technology for optimal performance and efficient energy utilization.



High-density Cell

Equipped with high-density battery cells, it maximizes energy capacity in a compact design to achieve cost savings and diverse business needs.

Model	E-MATE-114R	E-MATE-129R	E-MATE-143R	E-MATE-157R	E-MATE-172R	E-MATE-186R
	E-MATE-200R	E-MATE-215R	E-MATE-229R			

Performance

Cell technology	LFP (LiFePO ₄)					
Battery module	14.336 kWh, 51.2 V, 110 kg (242.5 lbs)					
Number of modules	8	9	10	11	12	13
	14	15	16			
Battery usable energy [1]	114.688 kWh	129.024 kWh	143.36 kWh	157.696 kWh	172.032 kWh	186.368 kWh
	200.704 kWh	215.04 kWh	229.376 kWh			
Nominal voltage	409.6 V	460.8 V	512V	563.2 V	614.4V	665.6 V
	716.8 V	768.0 V	819.2 V			
Operating voltage	358.4 - 449.28 V	403.2 - 505.44 V	448 - 561.6 V	492.8 - 617.76 V	537.6 - 673.92 V	582.4 - 730.08 V
	627.2 - 786.24 V	672 - 842.4 V	716.8 - 898.56 V			
Max. charge and discharge current	280 A					

Communication

Display	SOC status indicator, LED indicator, LCD display
Communication	Ethernet / CAN / RS485

General Specification

Dimension (WxDxH)	1164x840x1776 mm	1164x840x1776 mm	1164x840x1776 mm	1164x840x2050 mm	1164x840x2050 mm	1721x840x1776 mm
	1721x840x1776 mm	1721x840x1776 mm	1721x840x1776 mm			
	45.8x33.1x69.9 inch	45.8x33.1x69.9 inch	45.8x33.1x69.9 inch	45.8x33.1x80.7 inch	45.8x33.1x80.7 inch	67.8x33.1x69.9 inch
	67.8x33.1x69.9 inch	67.8x33.1x69.9 inch	67.8x33.1x69.9 inch			
Weight	1130 kg (2491.2 lbs)	1240 kg (2733.7 lbs)	1350 kg (2976.2 lbs)	1540 kg (3395.1 lbs)	1650 kg (3637.6 lbs)	1760 kg (3880.1 lbs)
	1870 kg (4122.6 lbs)	1980 kg (4365.2 lbs)	2090 kg (4607.7 lbs)			
Installation	Floor stand					
Operating temperature [3]	Charge: 0 to 55°C (32 to 131°F) Discharge:-20 to 55°C (-4 to 131°F)					
Environmental humidity	≤ 95%RH (No condensation)					
Ingress protection rating	IP 20					
Cycle life [4]	6000 Cycles or ten (10) years @ 80% DOD / 25°C/ 0.5C, 70% EOL					
Scalability	Max 16 modules per stack, 10 stacks in parallel					
Application	ON Grid / ON Grid + Backup / OFF grid					
Compatible inverters	Refer to compatible PCS list					

Standard Compliance

Compliance	UN38.3 / (More available upon request)
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Ordering and Deliverable Part

Part	E-MATE-14.3-QC					
	E-MATE-BCU-M-114-QC	E-MATE-BCU-M-129-QC	E-MATE-BCU-M-143-QC	E-MATE-BCU-M-157-QC	E-MATE-BCU-M-172-QC	E-MATE-BCU-M-186-QC
	E-MATE-BCU-M-200-QC	E-MATE-BCU-M-215-QC	E-MATE-BCU-M-229-QC			
	E-MATE-R12	E-MATE-R12	E-MATE-R12	E-MATE-R14	E-MATE-R14	E-MATE-R18
	E-MATE-R18	E-MATE-R18	E-MATE-R18			

[1] Test conditions: 100% depth of discharge (DOD), 0.2C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the temperature is below 0°C or above 45°C.

[3] Please refer to the Warranty Letter for applicable conditions, the warranty is due whichever comes first.