

COMMERCIAL BATTERY

E-MATE-114R-229R (High Voltage)

114.6~229.3kWh



Full automatic manufacturing,
CCS technique



Precise voltage / temperature
/ SOC detection



Top-notch LFP Class A cell
/ Strict capacity grading



LCD display shows
data visually



Plug&play wiring cable,
easy installation



Maximum 14 in parallel,
up to 3.2MWh storage

DATASHEET

Model	E-MATE-114R E-MATE-200R	E-MATE-129R E-MATE-215R	E-MATE-143R E-MATE-229R	E-MATE-157R	E-MATE-172R	E-MATE-186R
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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			
System Nominal voltage	409.6 V	460.8 V	512 V	563.2 V	614.4V	665.6 V
	716.8 V	768.0 V	819.2 V			
System 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			
System Max. Charge and Discharge Current	280 A					

Communication

Display	LCD Display (battery operating status, SOC, alerts, etc.)
Communication	Ethernet / CAN / RS485

General Specification

Dimension (W×D×H)	1164×840×1776 mm	1164×840×1776 mm	1164×840×1776 mm	1164×840×2050 mm	1164×840×2050 mm	1721×840×1776 mm
	1721×840×1776 mm	1721×840×1776 mm	1721×840×1776 mm			
	45.8×33.1×69.9 inch	45.8×33.1×69.9 inch	45.8×33.1×69.9 inch	45.8×33.1×80.7 inch	45.8×33.1×80.7 inch	67.8×33.1×69.9 inch
	67.8×33.1×69.9 inch	67.8×33.1×69.9 inch	67.8×33.1×69.9 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 [2]	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	IP20					
Warranty Period [3]	10 years					
Scalability	Max. 16 modules per stack, 14 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 Delivery Parts

Parts	Battery Pack						
	E-MATE-14.3-QC						
	Battery Control Unit	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			
	Battery Rack	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.