COMMERCIAL BATTERY

E-MATE 112R-257R

High Voltage | 112.5 ~ 257.2 kWh

UN 38.3 IEC



Features

- Scalable capacity up to 257 kWh, achieving a maximum capacity of 2.3 MWh.
- Fan cooling for lower auxiliary power consumption
- No routine maintenance, reducing operational costs and downtime risks.
- Remote real-time monitoring of equipment status
- Modular design with front-access maintenance

Scenarios



Industrial Parks



Commercial Parks



Livestock Farms



Farms



Manufacturing Bases

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DATASHEET

Model	E-MATE-112R E-MATE-192R	E-MATE-128R E-MATE-208R	E-MATE-144R E-MATE-225R	E-MATE-160R E-MATE-241R	E-MATE-176R E-MATE-257R
Performance					
Cell technology	LFP ($LiFePO_4$)				
Battery module	16.0768 kWh, 51.2 V, 115 kg (253.53 lb)				
Number of modules	7	8	9	10	11
	12	13	14	15	16
Battery usable energy [1]	112.5376 kWh	128.6144 kWh	144.6912 kWh	160.768 kWh	176.8448 kWh
	192.9216 kWh	208.9984 kWh	225.0752 kWh	241.152 kWh	257.2288 kWh
System nominal voltage	358.4 V	409.6 V	460.8 V	512 V	563.2 V
	614.4 V	665.6 V	716.8 V	768 V	819.2 V
System operating voltage	313.6 ~ 403.2 V	358.4 ~ 460.8 V	403.2 ~ 518.4 V	448 ~ 576 V	492.8 ~ 633.6 V
	537.6 ~ 691.2 V	582.4 ~ 748.8 V	627.2 ~ 806.4 V	672 ~ 864 V	716.8 ~ 921.6 V
System Max. charge and discharge current	157 A				
Recommended Depth of Discharge	90 %				
Communication					
Display	LCD Display (battery operating status, SOC, alerts, etc.)				
Communication	CAN / RS485 / Bluetooth / Wi-Fi				
General Specification					
Dimension (W × D × H)	1052 × 802 × 1776 mm				1573 × 802 × 1502 mm
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	41.42 × 31.57 × 69.92 inch				61.93 × 31.57 × 59.13 inch
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Weight	1020 kg (2248.71 lb)	1140 kg (2513.27 lb)	1260 kg (2777.82 lb)	1380 kg (3042.38 lb)	1520 kg (3351.02 lb)
	1640 kg (3615.58 lb)	1760 kg (3880.13 lb)	1880 kg (4144.69 lb)	2000 kg (4409.24 lb)	2120 kg (4673.79 lb)
Installation	Floor stand				
Operating temperature [2]	Charge: 0 °C ~ 55 °C (32 °F ~ 131 °F) Discharge: -20 °C ~ 55 °C (-4 °F ~ 131 °F)				
Environmental humidity	≤ 95 % RH (No condensation)				
Ingress protection rating	IP20				
Warranty period [3]	5 years / 10 years (Optional)				
Scalability	Max. 16 modules per stack, 9 stacks in parallel				
Cooling method	Forced-air cooling				
Application	On-grid / On-grid + Backup / Off-Grid				
Compatible inverters	Refer to compatible Hybrid Inverter list				
Cycle life	8,000 cycles (25 ± 2 °C, 0.5P / 0.5P, 70 % SOH)				
Battery Cabinet — Hybrid Inverter Cable Specs	1/0 AWG (Copper Core Power Cable)				
Standard Compliance					
Compliance	UN 38.3 / IEC 62619 / IEC 63056 / IEC61000-6-2 / IEC62477-1				
Ordering and Delivery Parts					
Battery Pack	E-MATE- 16 -QC				
Battery Control Unit	E-MATE-BCU-M-112-QC	E-MATE-BCU-M-128-QC	E-MATE-BCU-M-144-QC	E-MATE-BCU-M-160-QC	E-MATE-BCU-M-176-QC
	E-MATE-BCU-M-192-QC	E-MATE-BCU-M-208-QC	E-MATE-BCU-M-225-QC	E-MATE-BCU-M-241-QC	E-MATE-BCU-M-257-QC
Battery Rack	E-MATE-R12	E-MATE-R12	E-MATE-R12	E-MATE-R12	E-MATE-R15
	E-MATE-R15	E-MATE-R18	E-MATE-R18	E-MATE-R18	E-MATE-R18

[1] Test conditions: 100 % depth of discharge (DOD), 0.5C 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.