



E-Mate-GP Outdoor

E-MATE 500GP

Features

- Overview: Outdoor battery cabinet with IP55 protection level, inbuilt lithium-ion battery and BMS.
- Easy Installation and Maintenance: Local and remote management, standard rack&module design, front maintenance.
- Safe & Reliable: Self-developed 2-level / 3-level BMS, multiple protection, safe and reliable.
- High Density : High capacity LFP battery.
- Long Lifespan: Long cycle life, 6000 cycles.
- Cell Balancing Technology: Advanced cell balancing.

MODEL	E-MATE 500G
PERFORMANCE	
Battery module (Wh/V)	14.336 kWh, 51.2 V, 110 kg (242.5 lbs)
Number of modules	18*2
Cell technology	LFP(LFeFO4)
Battery usable energy [1]	516.096kWh
Nominal voltage	921.6V
Operating voltage	806.4-1010.9V
Nominal output current	140A*2/280A*2
COMMUNICATION	
Display	SOC status indicator, LED indicator,LCD display
Communication	Ethernet/CAN / RS485
GENERAL SPECIFICATION	
Dimension (W*D*H)	2991×2438×2591 mm
	117.8×96×102.0 inch
Weight	8000 kg (17637.0 lbs)
Operating temperature [2]	-20 to 60°C (-4 to 140°F)
Environmental humidity	≤ 95%RH (No condensation)
Protection rating	IP 55
Cycle life [3]	6000 Cycles or ten (10) years @ 80% DOD / 25°C / 0.5C, 60% EOL
Scalability	Yes
Application	ON Grid / ON Grid + Backup / OFF grid
Compatible inverters	Refer to compatible PCS list
STANDARD COMPLIANCE	
	Cell: UN38.3 / IEC62619 / UL 1642 / JET
	Pack: UN38.3 / IEC62619 / IEC61000

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

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45v to 55°C.

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