E-MATE 500GP



[Overview]

Outdoor battery containter with IP55 protection level, inbuild lithium-ion battery and BMS

Easy Installation And Maintenance

Local and remote management, standard rack&module design, front maintenance

[Safety & Reliable]

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

High Density

LP high-capacity Li-lon battery with aluminum shell, over 130wh/kg

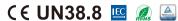
[Long Lifespan]

Long cycle life, 6000 cycles *

[Cell Balancing Technology]

Active cell balancing and passive cell balancing











DATASHEET

Model	E-MATE 500GP	
Performance Performance		
Battery module (Wh/V)	14.3 kWh, 51.2 V, 110 kg (242.5 lbs)	
Number of modules	18*2	
Cell technology	LFP (LiFePO4)	
Battery usable energy [1]	516 kWh	
Nominal voltage	921.6 V	
Operating voltage	820.8 - 1010.9 V	
Nominal output current	140 A*2 / 280 A* 2	

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

General Specification		
Dimension (W*D*H)	2991×2438×2591 mm	
	117.8×95.9×102 inch	
Weight	8000 kg (17637 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 @ 80% DOD / 25°C / 0.5C, 60% EOL	
Scalability	Yes	
Application	ON Grid / ON Grid + Backup / OFF grid	
Compatible PCS	Refer to compatible PCS list	

Standard Compliance		
	Cell: UN38.3 / IEC62619 / UL 1642 / JET	
Certificates	Pack: UN38.3 / IEC62619 / IEC61000	
	System: UL 9540 (More available upon request)	

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

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

^[3] Condition apply. Refer to Warranty Letter