

# Model SUN-BATT-80



### [ Overview ]

Indoor battery rack with IP20 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, complex protection, safe and reliable

### [ High Density ]

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

### [ Long Lifespan ]

Long cycle life, 8000 cycles \*

### [ Cell Balancing Technology ]

Active cell balancing and passive cell balancing

## DATASHEET

Model	E-MATE 80
<b>Performance</b>	
Battery module (Wh/V)	6.144 kWh, 51.2V, 64kg (141lbs)
Number of modules	13
Cell technology	LFP (LiFePO4)
Battery usable energy [1]	79.82 kWh
Nominal voltage	665.6 V
Operating voltage	592.8-730.08 V
Nominal output current	48 A / 84A
<b>Communication</b>	
Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232
<b>General Specification</b>	
Dimension (W*D*H)	2420x305x1150 mm 95.3x12x45.3 inch
Weight	About 886kg (1953lbs)
Operating temperature [2]	-20 to 60 °C (-4 to 140 °F)
Environmental humidity	≤ 95%RH (No condensation)
Protection rating	IP 20
Cycle life [3]	8000 Cycles @ 80% DOD / 25°C / 0.5C, 70% EOL
Scalability	Yes
Application	ON Grid / ON Grid + Backup / OFF grid
Compatible PCS	Refer to compatible PCS list
<b>Standard Compliance</b>	
Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET Pack: UN38.3 / IEC62619 / IEC61000 Available upon request
<b>Ordering and Deliverable Part</b>	
Part	E-MATE-6.1P-OT (Battery module) E-MATE-BCU-080H1-OT (Main control box) E-MATE-6.1BP (Battery pedestal)

[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 & 45 °C to 55 °C.

[3] Please refer to the Warranty Letter for applicable conditions.