

**Model**

**E-MATE 500GP**



**[ Overview ]**

Outdoor battery container with IP55 protection level, inbuilt 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-Ion 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

|              |                     |
|--------------|---------------------|
| <b>Model</b> | <b>E-MATE 500GP</b> |
|--------------|---------------------|

### Performance

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

### Communication

|                      |  |
|----------------------|--|
| <b>Display</b>       | SOC status indicator, LED indicator, LCD display |
| <b>Communication</b> | Ethernet / CAN / RS485                           |

### General Specification

|                                  |  |
|----------------------------------|--|
| <b>Dimension (W*D*H)</b>         | 2991×2438×2591 mm<br>117.8×95.9×102 inch     |
| <b>Weight</b>                    | 8000 kg (17637 lbs)                          |
| <b>Operating temperature [2]</b> | -20 to 60 °C (-4 to 140 °F)                  |
| <b>Environmental humidity</b>    | ≤ 95%RH (No condensation)                    |
| <b>Protection rating</b>         | IP 55  |
| <b>Cycle life [3]</b>            | 6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL |
| <b>Scalability</b>               | Yes  |
| <b>Application</b>               | ON Grid / ON Grid + Backup / OFF grid        |
| <b>Compatible PCS</b>            | Refer to compatible PCS list                 |

### Standard Compliance

|                     |  |
|---------------------|--|
| <b>Certificates</b> | Cell: UN38.3 / IEC62619 / UL 1642 / JET<br>Pack: UN38.3 / IEC62619 / IEC61000<br>System: UL 9540 (More available upon request) |
|---------------------|--|

[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] Condition apply. Refer to Warranty Letter