

# PowerGen Mate

## 106 kWh-----200 kWh

High-Voltage Battery System

Our robust high-voltage lithium battery system excels in mobile applications and harsh environments, making it the ideal energy storage solution for demanding hybrid power systems.

As the core energy storage unit, our system is designed for seamless integration with Gen-set, PCS, and controllers,

Providing reliable energy storage support for your hybrid energy system while reducing integration complexity—we focus on the battery, so you can focus on system value.



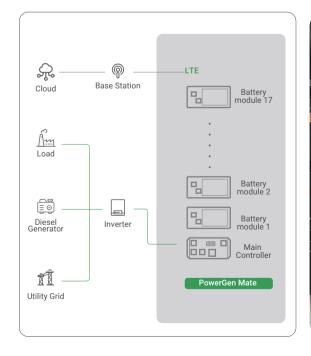


Main control

Battery module



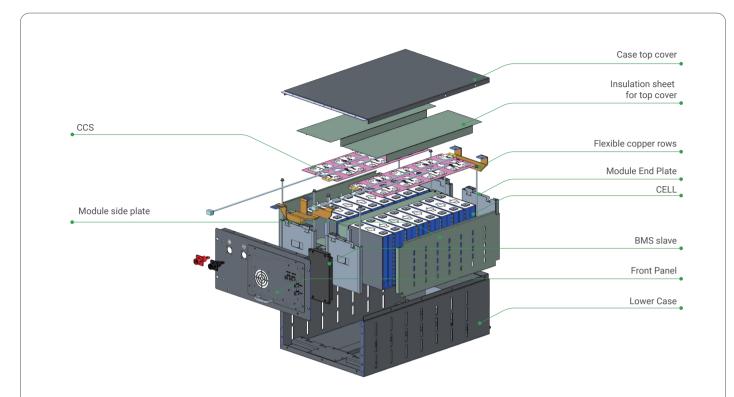
### System Layout

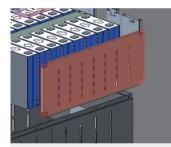






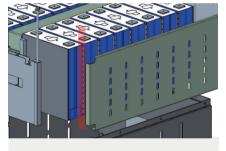
OUR ENERGY WORKS FOR YOU



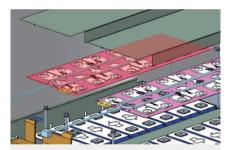


# Module side plate High Mechanical Strength

High Mechanical Strength Optimized Airflow Design Simplified Thermal Management Easy Maintenance & Modification

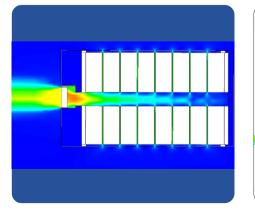


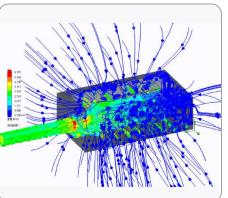
Aluminum air guide plate Excellent thermal conductivity Light weight Durable Maximize thermal conductive area

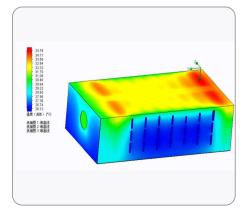


CCS Reliable Electrical Connection Enhanced Thermal Management Robust Mechanical Stability Intelligent Monitoring Potential

### Unique ventilation ducting design for battery modules







#### Main Parameters

| Battery Module                    |                                                 |
|-----------------------------------|-------------------------------------------------|
| Module energy (kWh)               | 11.776                                          |
| Rated voltage of module (V)       | 51.2                                            |
| Module Operating Voltage (V)      | 40-58.4                                         |
| Module capacity (Ah)              | 230                                             |
| Continuous charging current (A)   | 115                                             |
| Continuous discharge current (A)  | 115                                             |
| Peak charging current (A)         | 460A 30S(2C)                                    |
| Peak discharge current (A)        | 460A 30S(2C)                                    |
| Operating Temperature             | Charge:0°C~55°C Discharge:-30°C~55°C            |
| Battery module combination        | support Max 17 modules connected in series      |
| Weight (kg)                       | 99                                              |
| Dimension(mm)                     | 484*236*643                                     |
|                                   |                                                 |
| Cell Selection                    |                                                 |
| Cell type                         | LiFeP04                                         |
| Cell model                        | 3.2V 230Ah                                      |
| Nominal Capacity                  | 230Ah                                           |
| Nominal Voltage                   | 3.2V                                            |
| Operation Voltage                 | 2.5~3.65                                        |
| Standard Discharging Current      | 115A                                            |
| Max. Continuous Discharge Current | 230Ah                                           |
| Max . peak Discharge Current      | 460A 60s SOC>20%                                |
| Standard Charging Current         | 115A                                            |
| Max. Continuous Charge Current    | 230Ah                                           |
| Max . peak Charge Current         | 460A 60s SOC>20%                                |
| Operation Temperature             | Charge:0~55°CDischarge:-30~55°C                 |
| Cycle life                        | Cycle number>4000 times(remaining capacity>80%) |
| Typical Dimension                 | 53.72*174*203.11                                |
| Weight                            | 4.11+0.12kg                                     |

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