

# PowerBase Mate LV

Stack-mounted  
Energy Storage System

5.12kWh-----614.4kWh



## Key Features



### Safety

Tier-1 Grade A LFP Battery  
2-layer Safety Protection IP55



### Reliability

Battery & BMS R&D Started from 2014  
80,000 Battery Modules in 90+ Countries



### High Usable Capacity

100% Usable Capacity



### Flexibility

Modular Design  
Expand Anytime



### Intelligent Management









Monitoring and Analysis by APP  
Remote Diagnosis and OTA



### Cable-free Installation

Save up to 50% installation time

## Main Parameters

Battery Module QTY	2	3	4	5	6	7	8
Schematic Diagram							
Usable Energy (kWh) <sup>[1]</sup>	10.24	15.36	20.48	25.6	30.72	35.84	40.96
Max Continuous Power (kW) <sup>[2]</sup>	9.0	13.5	15.0				
Max Peak Current (A) <sup>[3]</sup>	200,10s	300,10s	400,10s	500,10s			
L*W(mm)	735*400						
H(mm)	646	781.5	917	1052.5	1188	1323.5	1459
Net Weight (kg)	141	193	245	297	349	401	453
Master Control Module	ZR-MC100-200M1						
Battery Module	ZR-FS48100-160SJ1						
Nominal Voltage (V)	51.2						
Operating Voltage Range (V)	43.2-58.4						
Cycle Life	8000 times						
Communication	CAN/RS485/RS232/WIFI						
Protection Level	IP55						
Warranty <sup>[4]</sup>	10 years product warranty						
Operating Temperature <sup>[5]</sup>	-20°C to +55°C (Charge 0°C to +55°C)						
Certification	CEI 0-21/CE/UKCA/UL 1973/UL9540/UN 38.3/MSDS						
Scalability	Max.15 systems in parallel						
Application	ON Grid (Self consumption/ON Grid+Backup/Backup) and Off Grid						
Compatible Inverter Brands:							

[1] Test conditions: 100% DOD, 0.2C charge & discharge @+25°C. System Usable Energy may be variant with different inverter brands.

[2] Main circuit breaker maximum current capability.

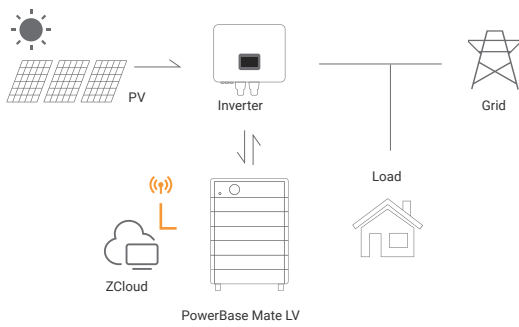
[3] In off-grid applications, the main circuit breaker should be bypassed, use a separate circuit breaker with a large current capacity.

[4] Conditions: Refer to Power Base Mate warranty.

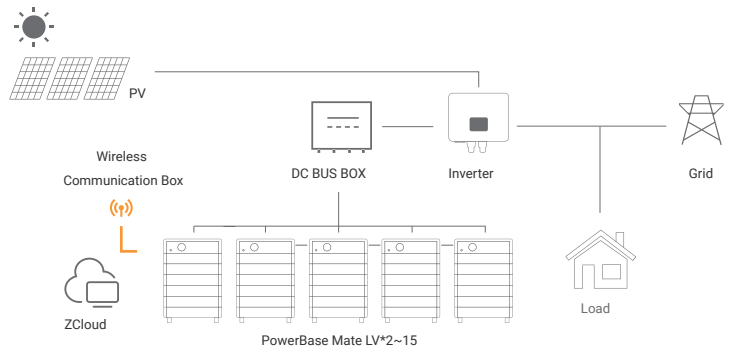
[5] -20°C ~ 15°C/ 50 °C~ 55°C will be derating.

## ■ System Layout

Single battery module



Multi-cluster



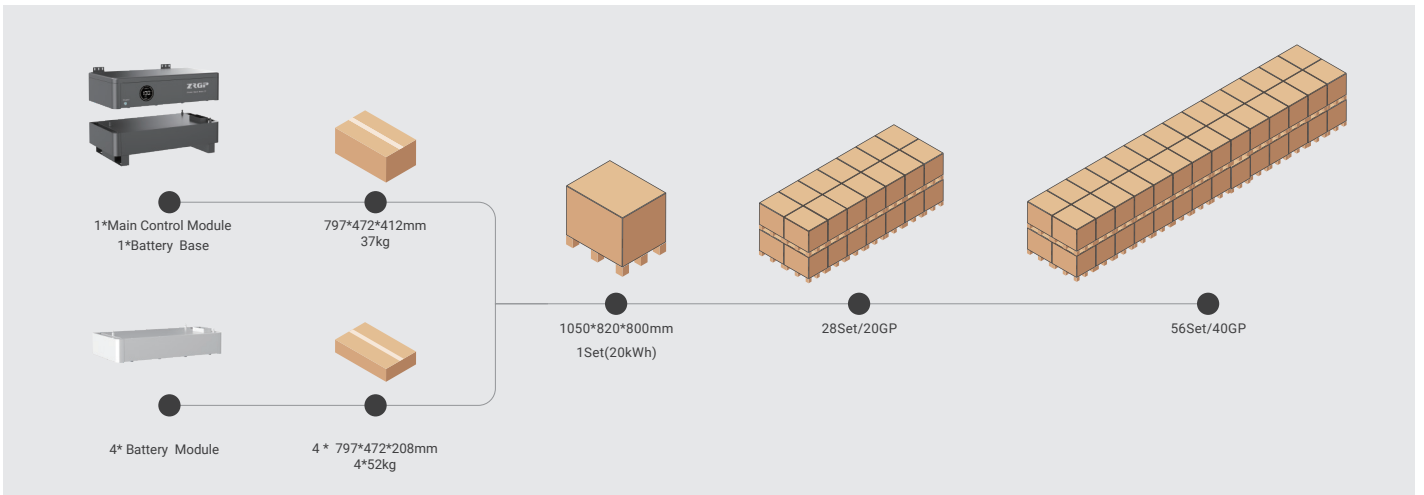
● Peak Shaving

● Energy Surplus

● Self-Consumption

● Energy Outage

## ■ Packaging And Shipping Details



## ■ Cases



## ■ Size

