

RESIDENTIAL ENERGY



Storage Solutions

 **Ultra Safety**

 **Reliable Quality**

 **Strong Compatibility**

 **Flexibility**

 **Compact Structure**

 **One-button Adaptation**



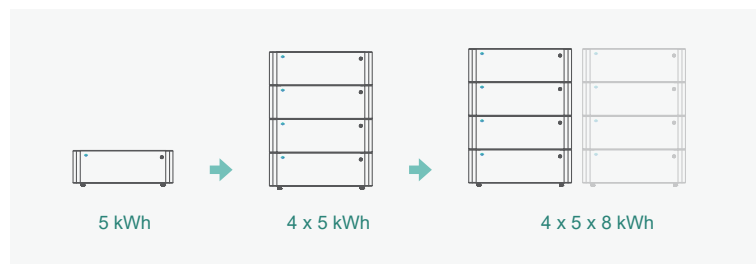
Datasheet of FD-LV5.0+



- ◆ Scalable from 5 kWh to 160 kWh
- ◆ Maximum Flexibility for any Application with up to 32 Packs Connected in Parallel
- ◆ Lithium Iron Phosphate (LFP) Battery: Maximum Safety, Lifespan and Power
- ◆ High Energy Density and Operational Reliability
- ◆ Application: Residential Energy Storage

FD-LV5.0+ Battery

The FD-LV5.0+ Battery is a lithium iron phosphate(LFP) battery module for use with an external inverter. The communication with the inverter is established through the BMS (Battery Management System). Each battery module has a separate BMS. Furthermore, it can be extended from 5kWh to 160kWh.



Technical Data

Usable Energy [1]	5 kWh
Max. Charge and Discharge Current [2][3]	70 A
Peak Charge and Discharge Current [3]	200 A, 10 s
Dimension (H/W/D)	195 x 595 x 255 mm
Weight	42 kg
Nominal Voltage	51.2 V
Operating Voltage	40 ~ 57.6 V
Charge Cut-Off Voltage	57.6 V
Discharge Cut-Off Voltage	40 V
Scalability	Max. 32 in Parallel (160 kWh)
Installation Mode	Floor installation
Communication	CAN / RS485
Round-trip Efficiency	≥ 95%
Applications	On Grid / On Grid + Backup / Off Grid
Operating Temperature	Charge 0~50°C & Discharge -20~50°C
Protection Class	IP20
Storage Humidity	5%~95%
Altitude	< 4000 m
Certification	CE / IEC62619 / UN38.3
Compatible Inverter	Victron / Deye / Solis / Megarevo / SMA / Voltronic / Phocos

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

[2] Charge derating will occur between 0°C and +10°C.

[3] The current varies with different compatible inverters.