



**RED POLE
ENERGY**

**Vital-5
Lithium Battery**
51.2V 5.12KWH



**Performance
& Warranty**

- 10 Year Warranty ³
- 6000+ Cycles
- 1C Rating



**Easy
Installation**

- Quick-Connect Cable Terminals, Cables Included
- Wall Mount or Free Standing
- BMS Compatible with Leading Inverter Brands



**Safe
& Reliable**

- Ultra Safe Lithium Iron Phosphate Cells (LiFePO4 / LFP)
- Built-in Isolator Switch for Added Protection
- IP65 Protection Rating



**Expandable
Capacity**

- Max 15 Units in Parallel to Extend Capacity to 75kW
- Full Communication Between Units
- Auto Master-Slave Setup





RED POLE
ENERGY

Vital-5
Lithium Battery
51.2V 5.12KWH

Performance

Nominal Voltage	51.2 Vdc
Nominal Capacity	100Ah
Battery Energy ¹	5120 Wh
Charge Voltage	55.68~56.16Vdc
Discharge Voltage	45.6-56.16 Vdc
Standard Charge / Discharge Current	20A - 50A
Standard Charge / Discharge Power	1000W - 2500W
Max Charge / Discharge Current	100A
Max Charge / Discharge Power	5000W
Short Circuit Current	350A

Communication

Display	SOC status indicator, LED indicator
Communication	RS232 / RS485 / CAN

General Specification

Dimension(W×D×H mm)	520 x 470 x 141.5mm
Weight (Kg)	47.2kg
Installation	Floor stand or Wall mounted
Working Temperature ²	0°C ~ 55°C
Storage Temperature	-20°C ~ 60°C
Operating / Storage / humidity	≤ 95%RH
Max Operating Altitude	≤2000m
IP Rating	IP65
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate
Cycle life ³	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL
Scalability	Max 15 batteries in parallel

Standard Compliance

Certification	CB,CE (EMC&LVD) UL1973, UL9540A
---------------	---------------------------------

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 **Vital-5** lithium battery Warranty Letter.