

Datasheet: RacPower® Range BN52V-100-5.2k BP

Product Features

- **Ultra-reliable Lithium Iron Phosphate Technology.**
- **High Performance:**
 - Power output = 5.2kW (continuous)
 - Fully rechargeable in 2 hours.
- **Robust & Durable:**
 - Can be discharged to 80% DoD.
 - Performance cycle life > 4000 cycles.
- **Inverter compatibility:**
 - Serial communication (CAN/RS485) compatible with leading inverter manufacturers.
 - Compatible via voltage-based setup with all other pure sine wave inverters.
- **6 year** product warranty.



Technical Specifications

GENERAL SPECIFICATIONS	
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)
Nominal Voltage	51.2V
Ah Rating	100Ah @C3, 25°C
Installed Capacity @Vnom	5 120Wh
Internal Resistance	≤ 50mΩ @1kHz AC
Serial Communication	CAN & RS485
VOLTAGE	
Operating Voltage Range	46.0V ~ 55.60V
Bulk Voltage (max.)	55.0V ± 0.3V
Float Voltage (recommended)	54.0V ± 0.3V
Low-Voltage (min.)	46.5V
CURRENT	
Charge Current (max.)	50A continuous ≤ 30A recommended
Discharge Current (max.)	100A for 30 mins. ≤ 70A recommended
Self-discharge Rate	Residual capacity: ≤ 3% /month ≤ 15% /year Recover capacity: ≤ 1.5% /month ≤ 8% /year
ENVIRONMENTAL REQUIREMENTS	
Operating Temperature Range	@Charge: 0°C ~ +50°C @Discharge: -10°C ~ +50°C
Recommended Operating Environment	Temp. range: +15 ~ +35°C Humidity: 5 ~ 75%RH
Storage Environment (stored ≤ 1 month)	Temp. range: -20 ~ +60°C Humidity: 5 ~ 75%RH
Storage Environment (stored ≥ 3 months)	Temp. range: +10 ~ +45°C Humidity: 5 ~ 75%RH
PHYSICAL ATTRIBUTES	
Dimensions – Main enclosure	446mm x 435mm x 153mm (W x D x H) *
Dimensions – Front plate	481mm x 153mm (W x H)
Net Weight	46.0kg (unboxed, no accessories)

* Depth measurement excludes terminals & handles. Add minimum 40mm to make provision for these.