



VERI 12



VERI 24



VERI 52

Essential Loads

LED Lights
Ceiling Fans
Television
Wi-Fi Router
Mobile Charging

✓
✓
✓
✓
✓

✓
✓
✓
✓
✓

✓
✓
✓
✓
✓

Productivity

Laptop
Computer
CCTV
POS system

✓
—

Short backup
Short backup

✓
✓

Good backup
Good backup

✓
✓

Excellent backup
Excellent backup

Heavy Loads

Refrigerator
Small Office

Short backup
—

Short backup

Good backup

✓
—

Excellent backup

✓
✓

Solar Storage

—

—

✓

Usable Energy

1.1kWh

2.3kWh

4.6kWh

Typical Backup

3-4 hrs

4-5 hrs

6-10 hrs

Recommended Inverter

Up to 1kVA (12V)

Up to 2.5kVA (24V)

Up to 5kVA (52V)

Note: Typical backup time is based on moderate residential loads. Actual backup duration depends on total connected load, appliance power consumption, battery state of charge, inverter efficiency and operating conditions. Actual performance depends on the inverter rating and appliance specifications. Recommended Inverter ratings are for guidance only. Contact VERI Battery Labs to confirm compatibility with your inverter model.

DETAILED PRODUCT DATASHEET

Technical Specification	VERI 12	VERI 24	VERI 52
PERFORMANCE			
Nominal Voltage	12.8V	25.6V	51.2V
Capacity	100Ah	100Ah	100Ah
Nominal Energy	1.28kWh	2.56kWh	5.12kWh
Usable Energy (@90% DoD ¹)	1.15kWh	2.30kWh	4.61kWh
Recommended Inverter ⁴	Up to 1 kVA, 12V	Up to 2.5 kVA, 24V	Up to 5 kVA, 52V
Cell Chemistry	LiFePO4		
Cell Type	Grade A Prismatic		
Cycle Life (@80% DoD)	3000+		
Max Continuous Charge Current	50A		
Max Continuous Discharge Current	100A		
Peak Discharge Current (10s at 100% SOC ²)	150A		
Max Charging Voltage	14.6V	29.2V	58.4V
Recommended Cutoff Voltage	11.6V	23.2V	46.4V
Charging Profile	Constant Current/ Constant Voltage		
ENVIRONMENTAL			
Operating Temperature (Charging)	0C - 45C		
Operating Temperature (Discharging)	-20C - 60C		
Storage Temperature	15C – 35C		
INSTALLATION & SIZE			
Weight (Kg)	Approx. 10 Kg	Approx. 22 Kg	Approx. 45 Kg
Dimensions (L X W X H), in mm	300 x 240 x 160 mm	300 x 400 x 160 mm	600 x 450 x 160 mm
Terminal Type	Screw Terminal	Screw Terminal	Screw Terminal
Mounting	Floor	Floor	Floor
SAFETY & SMART FEATURES			
Communication	Not Available	Not Available	CAN / RS485 for Hybrid / Off grid Inverters
BMS Protection	Over Voltage, Under Voltage, Over Charge, Over Discharge, Over Temperature, Active Balancing		
GENERAL			
Warranty ³	5 Years	5 Years	5 Years

1. Depth of Discharge; 2. State of Charge; 3. Refer to VERI Warranty Policy for complete coverage and exclusions; 4. Contact VERI Battery Labs to confirm compatibility with your inverter model

Note: Specifications are typical values and may change as part of VERI Battery Labs' continuous product improvement program. Performance may vary depending on operating conditions, installation, and usage.