

ENERGYDOCK

STANDARD RANGE

TECHNICAL DATA SHEET STANDARD LEVEL 1

SHORT DESCRIPTION

Introducing the STANDARD LEVEL 1 energy system, an advanced, compact and PV ready energy solution with a powerful Victron Energy EasySolar II 3 kVA low frequency inverter (which is NERSA approved) and a 3.072 kWh lithium iron phosphate (LiFePO₄) battery. The built-in SmartSolar MPPT 250/70-Tr charge controller supports up to 4000 W maximum PV power. Versatile and efficient, this unit can be used as a hybrid, off-grid or UPS system. All components are pre-programmed for optimal performance and are neatly housed in the steel enclosure, allowing for easy installation.

The STANDARD LEVEL 1 features system management with real-time monitoring, making it the perfect reliable, high-performance solution for all your energy needs.



STANDARD LEVEL 1 GENERAL SPECIFICATIONS

Product code	STDLEVEL1
Weight	56kg
Dimensions	880mm (l) x 680mm (w) x 280mm (d)
Enclosure	Floor or wall mountable metal enclosure
Installation	Indoor or protected undercover use.

VICTRON EASYSOLAR II 48/3000/35-32 INVERTER/CHARGER SPECIFICATIONS

PowerControl & PowerAssist	Yes
Transfer switch	32 A
Maximum AC input current	32 A
Auxiliary output	32 A

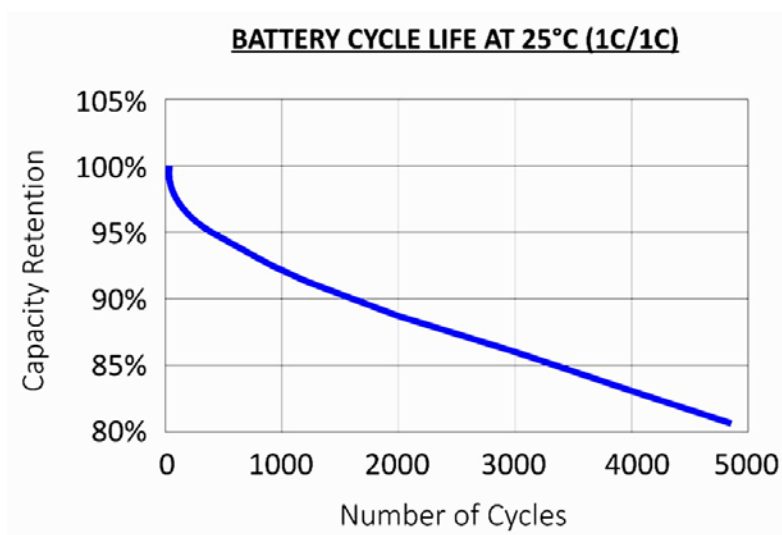


Inverter	
DC Input voltage range	38 – 66 V
Output voltage / frequency	230 VAC $\pm$ 2 % / 50 Hz $\pm$ 0,1 %
Continuous output power at 25°C	3000 VA / 2400 W
Continuous output power at 40 °C / 65 °C	2200 W / 1700 W
Maximum apparent feed-in power	3000 VA
Peak power	5500 W
Maximum efficiency	95%
Zero load power / in AES mode	11 W / 7 W
Charger	
AC Input voltage range / frequency	187-265 VAC / 45 – 65 Hz
Maximum battery charge current	35 A
SmartSolar Charge Controller	
Model	MPPT 250/70-Tr
Maximum output current	70 A
Maximum PV power	4000 W
Maximum PV open circuit voltage	250 V
Maximum efficiency	99%
Self consumption	20 mA
Protection	Output short circuit, overload, battery voltage too high, battery voltage too low, temperature too high
General	
Battery temperature sensor	Yes
Programmable relay	Yes
VE.Bus communication port	For parallel and three phase operation, remote monitoring and system integration
Remote on-off	Yes
General purpose com. port	x 2
Operating temp. range	-20 to +45° C (fan assisted cooling)
Humidity (non-condensing)	Maximum 95%

ES3K/48V LiFePO ₄ BATTERY SPECIFICATIONS	
Battery type	Grade A LiFePO ₄ Prismatic Cells
Nominal Voltage	51.2 VDC
Nominal capacity	60 Ah
Total Energy Capacity	3.072 kWh
Energy Capacity at 80% DoD	2.458 kWh
Standard charge current	40 A



Max charge current	45 A
Charge voltage Bulk/Absorb	56.2 VDC
Float voltage	56.0 VDC
Recommended constant discharge	50 A
Max discharge current	80 A
Discharge cut-off voltage	48 V @ 0.005C
BMS	Charge: 50A / Discharge: 100A
Protection	125 A circuit breaker
Operating temperature – Charge/Discharge	0 to 45° C / 0 to 55° C
Maximum parallel batteries	4 – Master and slave
Maximum discharge per additional battery	60A / 100A / 120A / 150A
CAN-bus communication	Yes
Victron GX ready	Yes



For more information and videos, please scan the QR code

