

ENERGYDOCK

STANDARD RANGE

TECHNICAL DATA SHEET STANDARD LEVEL 5

SHORT DESCRIPTION

The STANDARD LEVEL 5 energy system is an advanced, compact and PV ready energy solution with a powerful 6 kVA Victron Energy Multi RS dual tracker inverter/charger and a 9.6 kWh lithium iron phosphate (LiFePO₄) battery. This system is PV ready and has a built-in 450/100 MPPT charge controller that supports up to 6000W maximum PV power. Compact and slim, yet very 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 5 features system management with real-time monitoring, making it the perfect reliable, high-performance solution for all your energy needs.



STANDARD LEVEL 5 GENERAL SPECIFICATIONS

Product code	STDLEVEL5
Weight	101kg
Dimensions	1570mm (l) x 550mm (w) x 200mm (d)
Enclosure	Floor or wall mountable metal enclosure
Installation	Indoor or protected undercover use.

VICTRON MULTI RS SOLAR 48/6000 DUAL TRACKER INVERTER SPECIFICATIONS

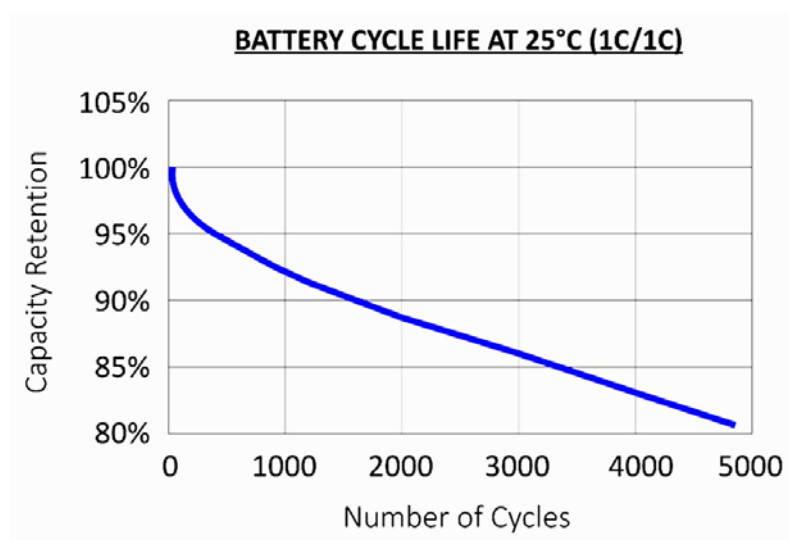
PowerControl & PowerAssist	Yes
Transfer switch	50 A
Maximum AC input current	50 A
Auxiliary output	Yes
Inverter	
DC Input voltage range	38 – 62 V
AC output voltage / frequency	230 VAC ± 2 % / 50 Hz ± 0,1 %



Maximum continuous inverter current	25 A
Continuous output power at 25°C	Increases linearly from 4800 W at 46 VDC to 5300 W at 52 VDC
Continuous output power at 40 °C / 65 °C	4500 W / 3000 W
Peak power	9000 W for 3 seconds, 7000 W for 4 minutes
Short circuit output current	45 A
Maximum AC output overcurrent protection	30 A
Efficiency	96.5% at 1 kW load / 94% at 5 kW load
Zero load power consumption	20 W
Low battery shutdown / restart	37.2 V (adjustable) / 43.6 V (adjustable)
Charger	
AC Input voltage range / frequency	187-265 VAC / 45 – 65 Hz
Programmable voltage charge range	36 – 60 V
Maximum charge current from AC	88 A @ 57.6 VDC
Total maximum charge current (AC + PV)	100 A DC
Battery temperature sensor	Yes
Battery voltage sense	Yes
Solar	
Maximum open circuit PV array voltage	450 V
Start-up voltage	120 V
MPPT operating voltage range	80 – 450 V
Number of trackers	2
Maximum operational PV input current limit	13 A
Maximum PV short circuit current	16 A
Maximum DC solar charging power	6000 W total – 3000 W per tracker
Maximum PV array size	7200 Wp (450 V x 20 A)
Earth leakage trip level	30 mA
Isolation fail level	100 kΩ
General	
Programmable relay	Yes
Data communications ports	VE.Direct port, VE.Can port and Bluetooth
Bluetooth frequency and power	2402 – 2480 Mhz, 4 dBm
Programmable ports	x 2
Remote on/off	Yes
Operating temp. range	-40 to +55° C (fan assisted cooling)
Maximum altitude	2000m
Humidity (non-condensing)	Maximum 95%



9.6 kWh LiFePO ₄ BATTERY SPECIFICATIONS	
Battery type	Grade A LiFePO ₄ Prismatic Cells
Nominal voltage	51.2 VDC
Nominal capacity	188 Ah
Total energy capacity	9.60 kWh
Energy capacity at 80% DoD	7.68 kWh
Standard charge current	125 A
Maximum charge current	150 A
Charge voltage Bulk/Absorb	56.2 VDC
Float voltage	56.0 VDC
Recommended constant discharge	150 A
Maximum discharge current	180 A
Discharge cut-off voltage	48 V @ 0.005C
BMS	Charge: 200A / Discharge: 200A
Protection	200 A circuit breaker
Minimum cycle life	4000 cycles @ 0.5C 80% depth of discharge
Operating temperature – Charge/Discharge	0 to 45° C / 0 to 55° C
Maximum parallel batteries	4 – Master and slave
Maximum discharge per additional battery	200A / 350A / 400A / 500A
CAN-bus communication	Yes, Victron GX ready



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