Inverter RS 48/6000 Smart

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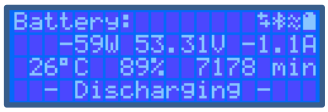

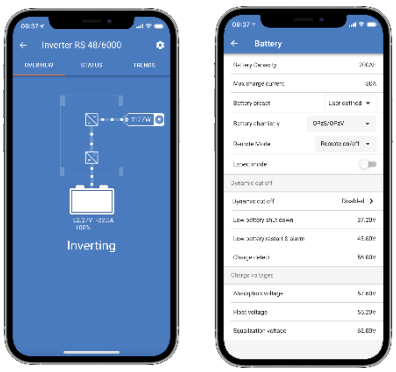

Configure and monitor with VictronConnect
A built-in Smart Bluetooth connection allows for quick monitoring or settings adjustment of the Inverter RS.

Light weight, efficient and quiet
Thanks to high frequency technology and a new design this powerful inverter weighs only 11kg. In addition to this it has an excellent efficiency, low standby power, and a very quiet operation.

Display and Bluetooth
The display reads battery and inverter parameters.
The same parameters can be accessed with a smartphone or other Bluetooth enabled device. In addition, Bluetooth can be used to set up the system and to change settings with VictronConnect.

VE.Can and VE.Direct port
For connection to a GX device for system monitoring, data logging, and remote firmware updates.

I/O Connections
Programmable Relay, temperature sensor and voltage sensor connections. The remote input can also be configured to accept the Victron smallBMS.

Inverter RS Smart	48/6000
INVERTER	
DC Input voltage range	38 – 64 V (4)
Output	Output voltage: 230 VAC ± 2% Frequency: 50 Hz ± 0.1% (1)
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	4500W
Continuous output power at 65°C	3000W
Peak power	9 kW for 3 seconds
Short-circuit output current	50A
Maximum efficiency	96.5% at 1 kW load 94% at 5 kW load
Zero load power	20W
GENERAL	
Parallel and 3-phase operation	No
Programmable relay (3)	Yes
Protection (2)	a - f
Data Communications Ports	VE.Direct port and VE.Can port
Bluetooth frequency	2402 – 2480 MHz
Bluetooth power	4dBm
General purpose analogue/digital in port	Yes, 2x
Remote on-off	Yes
Operating temperature range	-40 to +65°C (fan assisted cooling)
Humidity (non-condensing)	max 95%
ENCLOSURE	
Material & Colour	steel, blue RAL 5012
Protection category	IP21
Battery-connection	M8 bolts
230 V AC-connection	Screw terminals 13 mm² (6 AWG)
Weight	11 kg
Dimensions (hxwxd)	425 x 440 x 125 mm
STANDARDS	
Safety	EN-IEC 60335-1, EN-IEC 62109-1, EN-IEC 62109-2
Emission, Immunity	EN 55014-1, EN 55014-2 EN-IEC 61000-3-2, EN-IEC 61000-3-3 IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3
1) Can be adjusted to 60 Hz 2) Protection key: a) output short circuit b) overload c) battery voltage too high d) battery voltage too low e) temperature too high f) 230 VAC on inverter output	3) Programmable relay which can be set for general alarm, DC under voltage or genset start/stop function. DC rating: 4A up to 35VDC and 1A up to 70VDC 4) Minimum start-up voltage is 41V. Inverter shutdown can be set as low as 32V DC, but may shut down on low AC output voltage (due to load). Over-voltage disconnect is 65.5V.

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