MultiPlus Inverter/Charger 500VA and 800VA

12 / 24 / 48V

www.victronenergy.com

Proven reliability

The full bridge plus toroidal transformer topology has proven its reliability over many years.
The inverter is short circuit proof and protected against overheating, whether due to overload or high ambient temperature.

PowerControl - Dealing with limited generator, shore side or grid power (800VA model only)

With the Multi Control Panel a maximum generator or shore current can be set. The MultiPlus will then take account of other AC loads and use whatever is extra for charging, thus preventing the generator or shore supply from being overloaded.

PowerAssist - Boosting the capacity of shore or generator power (800VA model only)

Where peak power is so often required only for a limited period, the MultiPlus will make sure that insufficient shore or generator power is immediately compensated for by power from the battery. When the load reduces, the spare power is used to recharge the battery.

High start-up power

Needed to start high inrush loads such as power converters for LED lamps, halogen lamps or electric tools.

Search Mode

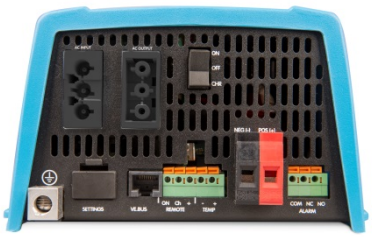
When Search Mode is 'on', the power consumption of the inverter in no-load operation is decreased by approx. 70%. In this mode the MultiPlus, when operating in inverter mode, is switched off in case of no load or very low load, and switches on every two seconds for a short period. If the output current exceeds a set level, the inverter will continue to operate. If not, the inverter will shut down again.

Programmable relay

By default, the programmable relay is set as an alarm relay, i.e. the relay will de-energise in the event of an alarm or a pre-alarm (inverter almost too hot, ripple on the input almost too high, battery voltage almost too low).

Remote on / off / charger on

Three pole connector.



12 Volt 24 Volt 48 Volt	MultiPlus 12/500/20 MultiPlus 24/500/10 MultiPlus 48/500/6	MultiPlus 12/800/35 MultiPlus 24/800/16 MultiPlus 48/800/9
PowerControl / PowerAssist	No	Yes
Three Phase and parallel operation	No	Yes
Transfer switch	16A	
INVERTER		
Input voltage range	9,5 – 17V 19 – 33V 38– 66V	
Output	Output voltage: 230VAC ± 2% Frequency: 50Hz ± 0,1% (1)	
Cont. output power at 25°C (3)	500VA	800VA
Cont. output power at 25°C	430W	700W
Cont. output power at 40°C	400W	650W
Cont. output power at 65°C	300W	400W
Peak power	900W	1600W
Maximum efficiency	90 / 91 / 92%	92 / 93 / 94%
Zero-load power	6 / 6 / 7W	7 / 7 / 8W
Zero-load power in search mode	2 / 2 / 3W	2 / 2 / 3W
CHARGER		
AC Input	Input voltage range: 187-265 VAC Input frequency: 45 – 65 Hz	
Charge voltage 'absorption'	14,4 / 28,8 / 57,6V	
Charge voltage 'float'	13,8 / 27,6 / 55,2V	
Storage mode	13,2 / 26,4 /52,8V	
Charge current house battery (4)	20 / 10 / 6A	35 / 16 / 9A
Charge current starter battery	1 A (6) (12V and 24V models only)	
Battery temperature sensor	Yes	
GENERAL		
Programmable relay (5)	Yes	
Protection (2)	a – g	
Common Characteristics	Operating temp. range: -40 to +65°C (fan assisted cooling) Humidity (non-condensing): max 95%	
ENCLOSURE		
Common Characteristics	Material & Colour: Steel/ABS (blue RAL 5012) Protection category: IP 21	
Battery-connection	16 / 10 / 10 mm²	25 / 16 / 10 mm²
230V AC-connection	G-ST18i connector	
Weight	4,4 kg	6,4 kg
Dimensions (h x w x d)	311 x 182 x 100 mm	375 x 240 x 100 mm
STANDARDS		
Safety	EN-IEC 60335-1, EN-IEC 60335-2-29, EN 62109-1	
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	
Road vehicles	ECE R10-4	

1) Can be adjusted to 60Hz and to 240V
2) Protection
a. Output short circuit
b. Overload
c. Battery voltage too high
d. Battery voltage too low
e. Temperature too high
f. 230VAC on inverter output
g. Input voltage ripple too high

3) Non-linear load, crest factor 3:1
4) At 25°C ambient
5) Programmable relay which can be set for:
General alarm
DC under voltage or generator start/stop signal function
AC rating: 230V/4A
DC rating: 4A up to 35VDC, 1A up to 60VDC
6) 12V and 24V model

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