

MultiPlus Inverter/Charger 500VA - 1600VA 12 / 24 / 48V

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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

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

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.

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

When Search Mode is 'on', the power consumption of the inverter in no-load operation is decreased by approx. 70%. In this mode the Multi, 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





12 Volt 24 Volt 48 Volt	12/500/20 24/500/10 48/500/6	2	2/800/35 4/800/16 8/800/9	12/1200/50 24/1200/25 48/1200/13	12/1600/70 24/1600/40 48/1600/20
PowerControl / PowerAssist	Yes / No			Yes / Yes	
Three Phase and parallel operation	Yes				
Transfer switch	16A				
		INVERTER			
Input voltage range		9,5 –	17V 19 –	33V 38-66V	
Output	Outpo	Output voltage: 230VAC ± 2%		Frequency: 50Hz ±	± 0,1% (1)
Cont. output power at 25°C (3)	500VA		800VA	1200VA	1600VA
Cont. output power at 25°C	430W	<i>W</i> 700W		1000W	1300W
Cont. output power at 40°C	400W	400W 650W		900W	1100W
Cont. output power at 65°C	300W	300W 400W		600W	800W
Peak power	900W	900W 1600W		2400W	2800W
Maximum efficiency	90 / 91 / 92%	90 / 91 / 92% 92 / 93 / 94%		93 / 94 / 95%	93 / 94 / 95%
Zero-load power	6/6/7W	7	7/7/8W	10/9/10W	10/9/10W
Zero-load power in search mode	2/2/3W	2	2/2/3W	3/3/3W	3 / 3 /3W
		CHARGER			
AC Input	Input voltage range: 187-265 VAC Input frequency: 45 – 65 Hz				y: 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		4 /52,8V		
Charge current house battery (4)	20/10/6A	3:	5/16/9A	50 / 25 / 13A	70 / 40 / 20A
Charge current starter battery		1.	4 (12V and 2	4V models only)	
Battery temperature sensor	Yes				
		GENERAL			
Programmable relay (5)	Yes				
Protection (2)	a – g				
VE.Bus communication port	For parallel and three phase operation, remote monitoring and system integration (RJ45-spliter ASS030065510 needed for 500/800/1200VA models)				
Remote on-off		On/off/charger only			On/off
DIP switches			Yes (6)		Yes (7)
Internal DC fuse	125/60/30A 150/80/40A		200/100/50A	200/125/60A	
Common Characteristics	Operating temp. range: -40 to +65°C (fan assisted cooling)				
	Humidity (non-condensing): max 95% ENCLOSURE				
Common Characteristics	Material 8		el/ABS (blue RA	I 5012) Protection of	ategory: IP 21
Battery-connection	16 / 10 / 10 mn		16 / 10 mm ²	35 / 25 / 10 mm ²	50 / 35 / 16 mm ²
230V AC-connection	107 107 101111	257	G-ST18i c		307 337 10 11111
Weight	4,4 kg		6,4 kg	8,2 kg	10,2 kg
Dimensions (h x w x d)	311 x 182 x 100 i	mm 360 x		406 x 250 x 100 mm	
	311 X 102 X 100 1	STANDARDS		100 X 250 X 100 11111	17 0 X 203 X 120 11111
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 R10-5				
3) Non-linear load, crest factor 3:1 4) At 25°C ambient 5) Projection 4) At 25°C ambient 5) Projection 4) At 25°C ambient 5) Projection 5) Projection 6 6. Overload 9 8. Battery voltage too high AC rating: 230V/4A 1. Battery voltage too low AC rating: 230V/4A 1. Cemperature too high 5 230VAC on inverter output 7 230VAC on inverter output 7 3) Non-linear load, crest factor 3:1 4) At 25°C ambient 5) Projection 1 240VAC on dev voltage or generator start/stop signal function AC rating: 230V/4A DC rating: 4A up to 35VDC, 1A up to 60VDC 6) Remote / Battery charge voltage / Inverter frequency / search mode 7) Battery charge voltage / search mode					

