

## MULTIPLUS 500 - 1600 VA

The MultiPlus is set to replace the earlier MultiPlus Compact range. It is a powerful true sine wave inverter, a sophisticated battery charger that features adaptive charge technology and a high-speed AC transfer switch in a single compact enclosure.



Multiplus



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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.

### 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 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 low).

## SPECIFICATIONS

Multiplus	12/500/20 24/500/10 48/500/6	12/800/35 24/800/16 48/800/9	12/1200/50 12/1200/25 12/1200/13	12/1600/70 24/1600/40 48/1600/20
PowerControl / Power Assist	Yes / No		Yes / Yes	
Transfer switch	16			
Inverter				
Input voltage range	9,5 - 17 V   19-33 V.   38 - 66 V			
Output Voltage	230 Vca +/- 2%			
Output Frequency	50 Hz +/- 0,1%			
Cont. Output power at 25 °C	500 VA	800 VA	1200 VA	1600 VA
Cont. Output power at 25 / 40 / 60 °C	430 / 400 / 300 W	700 / 650 / 400 W	1000 / 900 / 600 W	1300 / 1100 / 800 W
Peak Power	900 W	1600 W	2400 W	2800 W
Maximum efficiency	90 / 91 / 92 %	92 / 93 / 94 %	94 / 94 / 95 %	93 / 94 / 95 %
Zero-Load power	6 / 6 / 7 W	7 / 7 / 8 W	10 / 9 / 10 W	10 / 9 / 10 W
ECO-Load power	3 / 2 / 3 W	2 / 2 / 3 W	3 / 3 / 3 W	3 / 3 / 3 W
Charger				
AC Input	185 - 265 Vac / 45-65 Hz			
Charge voltage "absorption"	14,4 / 28,8 / 57,6 V			
Charge voltage "float"	13,8 / 27,6 / 55,2 V			
Storage mode	13,2 / 26,4 / 52,8 V			
Charge current house battery	20 / 10 / 6 A	35 / 16 / 9 A	50 / 25 / 13 A	70 / 40 / 20 A
Charge current aux. battery	1 A (12 and 24 volts models only)			
Battery temperature sensor	Yes			
General				
Programable relay	Yes			
Protection	Output short circuit Overload Battery voltage too high Battery voltage too low Temperature too high 230VAC on inverter output g. Input voltage ripple too high			
VE.Bus communication port	For parallel and three phase operation, remote monitoring and system integration (RJ45-splitter ASS030065510 needed for 500/800/1200VA models)			
Remote on-off	On / Off / Charger only			On / Off
DIP Switches	Yes (remote, battery charge voltage, inverter frequency, search mode)			Yes (Bat charge volt, Search mode)
Internal DC fuse	125 / 60 / 30 A	150 / 80 / 40 A	200 / 100 / 50 A	200 / 125 / 60 A
Temperature	-40 to + 65 °C (Fan assisted cooling)			
Humidity	Max. 95% (non-condensing)			
Enclosure				
Material & Colour	Steel / ABS (Blue RAL 5012)			
Protection category	IP 21			
Battery connection	16 / 10 / 10 mm2	25 / 16 / 10 mm2	35 / 25 / 10 mm2	50 / 35 / 16 mm2
230 Vac connection	G-STI 18i connector			
Weight	4,4 Kg	6,4 Kg	8,2 Kg	10,2 Kg
Dimensions ( h x w x d)	311 x 182 x 100 mm	360 x 240 x 100 mm	406 x 250 x 100 mm	470 x 265 x 120 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			
Automotive	ECE-R10-5			

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