

MULTI 500 SERIES

AC/AC UPS 500VA 430W 12V 24V 48V



New 500VA inverter/charger

The Multi 500VA 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.

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.

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).

Remote on / off / charger on

Remote operation can be implemented by connecting a switch to the three pole connector.



Multi	12 Volt 24 Volt 48 Volt	Multi 12/500/20 Multi 24/500/10 Multi 48/500/6
PowerControl		No
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	
Cont. output power at 25°C	430W	
Cont. output power at 40°C	400W	
Cont. output power at 65°C	300W	
Peak power	900W	
Maximum efficiency	90 / 91 / 92%	
Zero-load power	6,6 / 6,7 / 7,3W	
Zero load power in search mode	2,2 / 2,3 / 2,8W	
CHARGER		
AC Input	Input voltage range: 187-265 VAC Input frequency: 45 – 65 Hz Power factor: 1	
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 / 6 A	
Charge current starter battery	1 A	
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 / 10mm ²	
230 V AC-connection	G-ST18i connector	
Weight	4,4kg	
Dimensions (hxwxwd)	311x182x100mm	
STANDARDS		
Safety	EN 60335-1, EN 60335-2-29, EN 62109-1	
Emission / Immunity	EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3	
Road vehicles	EN 50498	
1) Can be adjusted to 60Hz and to 240V	3) Non-linear load, crest factor 3:1	
2) Protection	4) At 25°C ambient	
a. Output short circuit	5) Programmable relay which can be set for:	
b. Overload	General alarm	
c. Battery voltage too high	DC under voltage or generator start/stop signal function	
d. Battery voltage too low	AC rating: 230V/4A	
e. Temperature too high	DC rating: 4A up to 35VDC, 1A up to 60VDC	
f. 230VAC on inverter output		
g. Input voltage ripple too high		