

# MultiPlus Inverter/Charger 500 VA – 2000 VA

12 / 24 / 48V - 230 V

[www.victronenergy.com](http://www.victronenergy.com)



**MultiPlus**  
500 / 800 / 1200 / 1600 VA



**MultiPlus 2000 VA**  
(bottom cover removed)



**Ekrano GX or Cerbo GX**  
Provides intuitive system control and monitoring and enables access to our free remote monitoring website: the VRM Online Portal.



## VRM Portal

Our free remote monitoring website (VRM) will display all your system data in a comprehensive graphical format. System settings can be changed remotely via the portal. Alarms can be received by e-mail or push notification.



## VRM app

Monitor and manage your Victron Energy system from your smart phone and tablet. Available for both iOS and Android.

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	MultiPlus 12/1200/50 MultiPlus 24/1200/25 MultiPlus 48/1200/13	MultiPlus 12/1600/70 MultiPlus 24/1600/40 MultiPlus 48/1600/20	MultiPlus 12/2000/80 MultiPlus 24/2000/50 MultiPlus 48/2000/25		
PowerControl / PowerAssist	No	Yes	Yes	Yes	Yes		
Three Phase and parallel operation	Yes	Yes	Yes	Yes	Yes		
Transfer switch	16 A	16 A	16 A	16 A	32 A		
<b>INVERTER</b>							
Input voltage range		9,5 – 17 V	19 – 33 V	38 – 66 V			
Output		Output voltage: 230 VAC ± 2 %		Frequency: 50 Hz ± 0,1 % <sup>(1)</sup>			
Cont. output power at 25 °C <sup>(3)</sup>	500 VA	800 VA	1200 VA	1600 VA	2000 VA		
Cont. output power at 25 °C	430 W	700 W	1000 W	1300 W	1600 W		
Cont. output power at 40 °C	400 W	650 W	900 W	1100 W	1400 W		
Cont. output power at 65 °C	300 W	400 W	600 W	800 W	1000 W		
Peak power	900 W	1600 W	2400 W	2800 W	3500 W		
Maximum efficiency	90 / 91 / 92 %	92 / 93 / 94 %	93 / 94 / 95 %	93 / 94 / 95 %	93 / 94 / 95 %		
Zero-load power	6 / 6 / 7 W	7 / 7 / 8 W	10 / 9 / 10 W	10 / 9 / 10 W	10 / 9 / 10 W		
Zero-load power in search mode	2 / 2 / 3 W	2 / 2 / 3 W	3 / 3 / 3 W	3 / 3 / 3 W	3 / 3 / 3 W		
<b>CHARGER</b>							
AC Input		Input voltage range: 187-265 VAC		Input frequency: 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 <sup>(4)</sup>	20 / 10 / 6 A	35 / 16 / 9 A	50 / 25 / 13 A	70 / 40 / 20 A	80 / 50 / 25 A		
Charge current starter battery			1 A (12 V and 24 V models only)				
Battery temperature sensor		Yes					
<b>GENERAL</b>							
Programmable relay <sup>(5)</sup>		Yes					
Protection <sup>(2)</sup>		a – g					
VE.Bus communication port		For parallel and three phase operation, remote monitoring and system integration (RJ45-splitter ASS030065510 needed for 500 / 800 / 1200 VA models)					
Remote on-off		On/off/charger only		On/off			
DIP switches	Yes <sup>(6)</sup>	Yes <sup>(6)</sup>	Yes <sup>(6)</sup>	Yes <sup>(7)</sup>	Yes <sup>(7)</sup>		
Internal DC fuse	125 / 60 / 30 A	150 / 80 / 40 A	200 / 100 / 50 A	200 / 125 / 60 A	no		
Common Characteristics	Operating temp. range: -40 to +65 °C (fan assisted cooling)			Humidity (non-condensing): max 95 %			
<b>ENCLOSURE</b>							
Common Characteristics	Material & Colour: Steel/ABS (blue RAL 5012)		Protection category: IP 21		Steel (RAL 5012), IP21		
Battery-connection	16 / 10 / 10 mm <sup>2</sup>	25 / 16 / 10 mm <sup>2</sup>	35 / 25 / 10 mm <sup>2</sup>	50 / 35 / 16 mm <sup>2</sup>	M8 bolts		
230VAC-connection		G-ST18i connector					
Weight	4,4 kg	6,4 kg	8,2 kg	10,2 kg	15,5 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	506 x 236 x 147 mm		
<b>STANDARDS</b>							
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 Directive	ECE R10-5						
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. 230 VAC on inverter output g. Input voltage ripple too high	3) Non-linear load, crest factor 3:1 4) Up to 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/4 A DC rating: 4 A up to 35 VDC, 1 A up to 60 VDC 6) Remote / battery charge voltage / inverter frequency / search mode 7) Battery charge voltage / search mode						



**Digital Multi Control Panel**  
A convenient and low-cost solution for monitoring and control. With an on/off charger-only switch, full LED readout and a rotary knob to set PowerControl and PowerAssist levels.



**VE.Bus Smart Dongle**  
For monitoring and control via Bluetooth together with the VictronConnect app. It also measures battery voltage and temperature.



**Interface MK3-USB**  
Needed to configure the MultiPlus. Can be used with the VictronConnect app or VE.Configure software. The interface connects to the MultiPlus via an RJ45 UTP cable and plugs into a USB port.



**VictronConnect app**  
Use to monitor or configure the MultiPlus using your phone tablet or PC.



**Battery Monitor**

To monitor battery state of charge via Bluetooth or the VRM portal. The BMV 712 Smart has display, while the SmartShunt does not have a display. Both communicate via Bluetooth and have a VE.Direct communication port.

