WM800 to WM4000 Series
800VA to 4000VA

Wall Mount 1600VA & 4000VA

Wall Mount 800VA & 1200VA

General Features

- Line interractive with only 3mS transfer time
- Adjustable voltage transfer points and charging voltage
- Automatic restart of load after inverter shutdown
- Smart AVR function (two buck/boost modes)
- Wide AC input range of 140 to 310VAC for 230V version
  70 to 155VAC for 115V version
- Generator compatable & Cold start capable
- Fully functional LED or LCD display with audible alarm

- Smart battery management with high power charger
  Wet battery compatible
- Batteries (external) up to 500Ah typical
- Intelligent two stage charge control
  Adjustable charging current for different batteries
- Thermally controlled cooling fan
- DC to AC isolation
- Optional solar charger input (consult sales office)

Model Ratings

Model	Rating	AC Input & Output	Battery Voltage	Max Charge Current	Display	Weight in Kilos	Dimensions in mm
WM800-230	800VA/600W	230VAC	12VDC	20A	LED	10	120 x 250 x 370
WM1200-230	1200VA/900W	230VAC	12VDC	30A	LED	13	120 x 250 x 370
WM1600-230	1600VA/1200W	230VAC	24VDC	25A	LCD	15	200 x 410 x 300
WM2400-230	2400VA/1800W	230VAC	24VDC	35A	LCD	26	200 x 410 x 300
WM3200-230	3200VA/2400W	230VAC	36VDC	30A	LCD	34	200 x 410 x 300
WM4000-230	4000VA/3000W	230VAC	48VDC	30A	LCD	41	200 x 410 x 300
WM800-115	800VA/600W	115VAC	12VDC	20A	LED	10	120 x 250 x 370
WM1200-115	1200VA/900W	115VAC	12VDC	30A	LED	13	120 x 250 x 370
WM1600-115	1600VA/1200W	115VAC	24VDC	25A	LCD	15	200 x 410 x 300
WM2400-115	2400VA/1800W	115VAC	24VDC	35A	LCD	26	200 x 410 x 300
WM3200-115	3200VA/2400W	115VAC	36VDC	30A	LCD	34	200 x 410 x 300

Note: WM4000 is only available with 230VAC output, 115VAC version not available

Electrical Specification

Input	
Nominal AC Input:	230VAC or 115VAC (115VAC not available on 4000VA unit) 200V/220V/230V/240V or 100V/110V/115V/120V Selectable
Input Frequency:	47 to 65 Hz, 50/60 auto sensing
Efficiency::	97% normal mode, 85% under battery power
Noise Filtering:	Full time EMI/RFI filtering
Overcurrent Protection:	230V models 800VA/1200VA fuse protected, all others resettable trip
Voltage Range:	230V models 140V-310V, 115V models 70-155V
AVR Range (2 Bucks, 2 Boosts):	Enhanced Buck: +28% of selected V, Buck Mode: +10% of selected V Boost Mode: -10% of selected V, Enhanced Boost: -25% of selected V
Surge Protection:	230V models 800VA/1200VA: 220 Joules, 1600VA-4000VA: 440 Joules 115V models 800VA/1200VA: 216 Joules, 1600VA-3200VA: 324 Joules
Output	
Output Power:	See model rating table
Output Voltage:	200V/220V/230V/240V or 100V/110V/115V/120V Selectable
Output Waveform:	Pure Sine Wave
Crest Factor:	3:1
Output Frequency:	Auto Select for 50/60Hz, syncronised to incoming AC mains supply
Regulation (nominal):	±10% typical of nominal voltage
Regulation (under battery):	±3% of selected output voltage (adjustable with remote set-up software)
Transfer Time:	Blackout: 3mS typical, Brownout: 1mS typical, Battery to Normal: 1mS typical
Over Current Protection:	Overload Alarm: 100-120%, Overload shutdown: 120-190% (adjustable)
Battery	
Battery Type:	Lead Acid 50Ah to 500Ah (recommended)
Typical back up time:	No limit, depends on batteries used (externally)
Charging Method:	Smart pulse charging with two charging modes. Quick charging when battery is not fully charged, trickle charge when battery is 90% fully charged
Maximum Charging Current:	See table
Average Charging Voltage:	Fast charging: 14V, 28V, 42V or 56V depending on battery voltage Float charging: 13.5V, 27V, 40.5V or 54V (adjustable with set up software)
Protection:	Over current protection & Over charging protection (SCR control) Thermal protection (CPU control), when temperature inside the unit is higher than 45°C, charger will stop for 2 minutes, followed by 2 minutes charging. The cycle will be repeated until temperature drops.
Monitoring:	Smart monitoring & warning for failed battery or open-circuit battery. Auto detection each time when power on or over 6 days
Communications & Management	
Standard Interface Port:	UPSilon2000 compatible, optional RS232 and or USB
Optional Interface Port:	RJ45 (surge protection), DB9, SNMP (external type)
Control Panel:	LED 800VA/1200VA, LCD others
Audible Alarm:	Low Battery & Battery Overvoltage, Over load, Short Circuit, Over Temp
Green Mode Function: (auto shut off in black out)	1% to 14% of full load (adjustable by using remote set up software) The default setting is off
Cooling:	Temperature controlled fan
Environment	
Operating Temperature:	0° to 40°C
Storage Temperature:	-15° to +55°C
Relative Humidity:	5 to 95% non condensing
Operating Altitude:	0 to 3000 metres
Dimensions & Weight	See table