

## Specification:

Please refers to the catalogs of PowerPal and PowerPure for detailed specifications, hereafter described is the key specification of the additional features.

Model No.	L1400R	M1000R	M2000R	M3000R
<b>Topology</b>	<b>Line-interactive</b>	<b>Triple Conversion On-line</b>		
<b>INPUT</b>		P.F. > 0.99 on typical loading Condition		
Voltage	100/115/230VAC Nominal			
Voltage Window (without using battery)	+22/-27 % of nominal input	80 ~ 138VAC for 100, 110 or 120VAC; 160 ~ 276VAC for 200, 220, 230, or 240VAC		
Frequency	50/60 Hz ± 5% auto-switching			
<b>OUTPUT</b>				
Voltage (on Battery)	PWM Stepwave	True Sinewave (same voltage as input nominal)		
Frequency	50 or 60Hz ±1% (same as input Hz)			
Voltage Regulation	Bulk/Boost	± 1% of nominal voltage		
VA Rating	1400	1000	2000	3000
Wattage	950	700	1400	2100
Transfer Time upon Utility Failure	4 ms typical	0 ms		
Nos Sockets (IEC or NEMA)	6	4	6	6
<b>SURGE PROTECTION</b>	Meet with IEEE 587 Cat. A & B standard			
Energy Rating	320 Joules instantaneous response			
Telephone/ LAN Surge Protected Port	Yes	N/A		
<b>NOISE FILTERING</b>				
EMI/RFI	Full time suppression			
Attenuation	Better than 45dB @ 1MHz for Normal/Common mode			
<b>BATTERY</b>	Lead-acid maintenance-free type			
Full/Half Load Runtime (minutes)	8/18	7/17	7/17	6/15
Battery Voltage/Rating (built-in)	36V/11AH	36V/7AH	72V/7AH	96V/7AH
Recharging Time	Typical 6 hours to 90% charged			
<b>PROTECTION</b>				
Over/Under Voltage	Switch to Battery Output when Utility over regulation range			
Overload/Short Circuit	SmartLoad sensor with current limited & NFB (No Fuse Breaker) protection for both Utility & Battery Mode			
Low Battery	Two stages, no battery drain after cutoff			
<b>WARNING DIAGNOSTICS</b>				
Front Panel Display	LED Only	LCD & LED		
Beeping Alarm Low battery,	On Battery, Overload,	fault, high temperature, on battery, Overload, low battery, over/under voltage, frequency error		
Advanced Mode	Self-test at default period automatically			
True RS232 Port	3	1		
<b>MECHANICAL</b>				
Dimension W x H x D (mm/inch)	482 x 133 x 460 /19 x 5.24 x 18.5	482 x 86.8 x 502 /19 x 3.42 x 19.8	482 x 133 x 470 /19 x 5.24 x 18.5	482 x 133 x 470 /19 x 5.24 x 18.5
Weight	32 kg / 70.5 lb.	24 kg / 53 lb.	44 kg / 96 lb.	48 kg / 105 lb.
<b>ENVIRONMENT</b>				
Ambient	0 – 40 °c, 0 – 90% non-condensing, 3000/meters max. elevation			
Audible Noise	Less than 45 dbA (1 meter measured) on either Utility or battery mode			

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