



- 19" rack mounting
- Unmatched surge capacity
- DC input options: 12, 24, 48, 96, 120V
- True Sine Wave output
- Low THD < 4%
- High efficiency
- DC input circuit breaker
- Isolation between input and output
- Under/over voltage protection
- Overload /short circuit protection
- Over temperature protection
- Low standby current
- Autostart sensitivity 0 - 20W

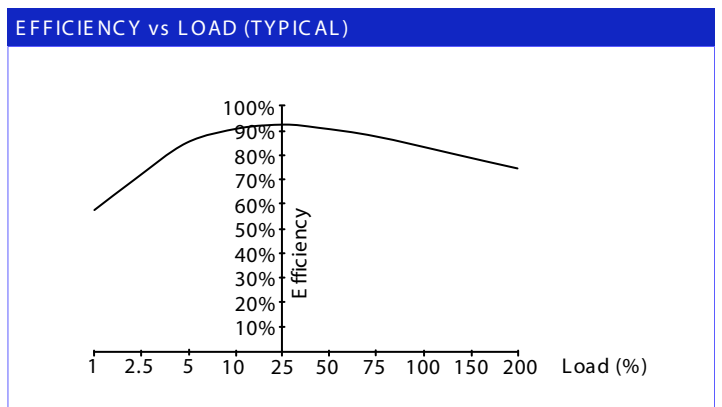
- 36 Month Warranty

SPECIFICATIONS All specifications are typical at nominal input, full load and at 20°C unless otherwise stated.

ELECTRICAL	
Output Voltage	230V AC (standard) 110V AC (option -V)
Output Frequency	50Hz ± 0.1% (60Hz by internal dip switch)
Isolation -input/output	3500VDC
-output/earth	5000VDC
Total Harmonic Distortion	<4%
Auto start sensitivity	0 - 20W adjustable (preset at ~ 5W)
Input protection	DC circuit breaker
Protection Circuitry (factory default reset = auto reset 8 mins, over-load max. 5 restarts)	<ul style="list-style-type: none"> • Overtemperature • Overload/short circuit • Battery undervoltage (setting adjustable by internal dip switch) • Battery overvoltage
Power Factor	All conditions (Note: Either VA or W must not exceed ratings)
Load Regulation	No load to full load: ± 4%

PHYSICAL	
Input Connection	2 x 1.5m long battery leads
Output Connection	3 terminal hardwired junction box
Enclosure	Powder coated 3mm aluminum
Indication	LED status indication: <ul style="list-style-type: none"> • On • Standby • Overtemperature • Overload • Battery Overvoltage • Battery Undervoltage
Dimensions	3U x 19" rack x 350mm deep
Cooling	Thermostatically controlled fan

FEATURES	
Conformal coating: Standard on all models to provide extra protection against moisture ingress.	
Toroidal transformer provides full isolation between AC and DC for extra safety and helps withstand fault conditions.	
Performance The unmatched surge power rating enables the operation of demanding appliances, such as fridges, microwaves, washing machines and pumps.	
Instantaneous Undervoltage Shutdown To protect your battery from deep discharge, the inverter will disconnect if the battery voltage falls below 75% of the nominal battery voltage. This feature can be disabled if starting a big load off a small battery.	
Reliability Innovative microprocessor monitoring ensures your Inverter is fully protected against overload, AC short circuit and overtemperature. High and low DC voltage shutdowns offer further protection for your batteries, allowing trouble free operation.	
Autostart Sophisticated sensing circuitry automatically switches the inverter OFF when no load is connected to the inverter. If a load is detected the inverter will automatically start up. The Autostart is an important feature where there is limited battery capacity. Sensitivity of the Autostart can be easily adjusted to set the load required before the inverter will start be set to run continuously.	
Durable Construction The IRM inverters are a quality product made to withstand vibration and constant movement in mobile or marine installations, using a powder coated aluminium casing instead of steel.	



500-5000 VA
DC/ AC True Sine Wave Inverters
19" Rack Mount



STANDARD MODEL TABLE

MODEL	DC Input				AC Output 50Hz, 230VAC @ 25° C			Peak Efficiency %	Weight kg
	Voltage Nom (Range) V	Inst. Shut-down V	Standby Current mA	Inverter On, no load mA	Continuous Power VAW	1/2 Hour Rating VAW	Surge 5 sec. VAW		
IRM512	12 (10-17)	9	27	420	500	550	1500	90	7
IRM624	24 (21-34)	18	22	310	600	750	2000	92	7
IRM648	48 (42-68)	36	19	150	600	750	2000	93	7
IRM696	96(80-140)	68	16	140	600	750	2000	93	7
IRM6120	120 (95-177)	85	15	130	600	750	2000	93	7
IRM1012	12 (10-17)	9	37	450	1000	1150	3000	91	12
IRM1224	24 (21-34)	18	28	250	1200	1600	3600	92	12
IRM1248	48 (42-68)	36	22	150	1200	1600	3600	94	12
IRM1296	96(80-140)	68	18	140	1200	1600	3600	94	12
IRM12120	120 (95-177)	85	17	130	1200	1600	3600	94	12
IRM1512	12 (10-17)	9	42	670	1500	1600	4500	91	16
IRM1824	24(21-34)	18	30	320	1800	2200	5400	94	16
IRM1848	48 (42-68)	36	24	180	1800	2200	5400	94	16
IRM1896	96(80-140)	68	18	160	1800	2200	5400	94	16
IRM18120	120 (95-177)	85	17	160	1800	2200	5400	94	16
IRM2012	12 (10-17)	9	75	1100	2000	2200	6000	90	22
IRM2324	24 (21-34)	18	45	510	2300	2800	7000	94	22
IRM2548	48 (42-68)	36	35	300	2500	3000	7500	94	22
IRM2596	96(80-140)	85	24	220	2500	3000	7500	94	22
IRM25120	120 (95-177)	85	22	210	2500	3000	7500	94	22
IRM3024	24 (21-34)	18	50	600	3000	3700	9000	93	24
IRM3548	48 (42-68)	36	40	330	3500	4100	10500	94	24
IRM3596	96(80-140)	68	28	240	3500	4100	10500	94	24
IRM35120	120 (95-177)	85	26	230	3500	4100	10500	95	24
IRM5048	48 (42-68)	36	55	500	5000	6000	15000	95	30

STANDARDS

Designed to meet AS 2279, EN55014 AS 3000 C-Tick AS 3001

OPTIONS

AC transfer switch Add suffix: -KX Automatically transfers load between inverter and generator/mains (changeover < 0.02 s). Specify whether normal supply is from inverter or mains.

100-120VAC output Option - V

60Hz output Option - H

Vibration proofing Ruggedisation option - R

RCD Residual current device option - D

Alarm (all models) Inverter fail -L

Alarm (models with transfer switch) Output fail -O
Mains fail -M

Psophonometric compliance To telecommunications standard ETS 3000132-2, add -J

ENVIRONMENTAL

Operating Temperature -10 to 50° C

Storage Temperature -20 to 70° C