



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

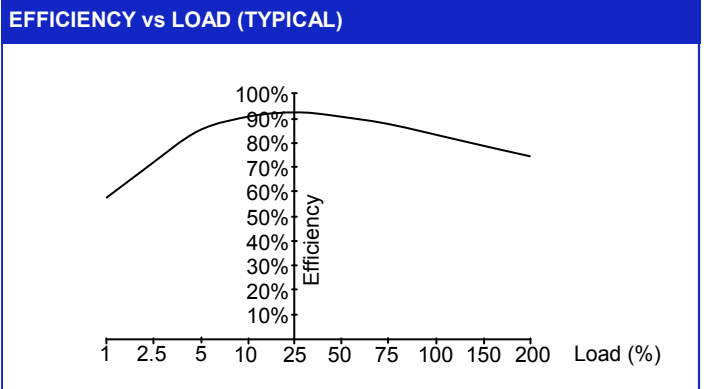
◆ 36 Month Warranty

**SPECIFICATIONS** All specifications are typical at nominal battery voltage, unity power factor and at 25°C ambient

ELECTRICAL	
Output Voltage	240V AC ± 4%
Output Frequency	50 Hz
Input/Output isolation	3500VAC
Total Harmonic Distortion	<4%
Auto start sensitivity	0 - 20W adjustable (preset at ~ 5W)
Protection Circuitry	<ul style="list-style-type: none"> <li>• Overtemperature</li> <li>• Overload/short circuit</li> <li>• Battery undervoltage <sup>1</sup></li> <li>• Battery overvoltage</li> </ul>
Power Factor	All conditions
Load Regulation	No load to full load: ± 4%

FEATURES
<b>Toroidal Transformer</b> provides full isolation between AC and DC reducing the risk of electric shock.
<b>Performance</b> The unmatched surge power rating enables the operation of demanding appliances, such as fridges, microwaves, washing machines and pumps.
<b><sup>1</sup> Instantaneous Undervolts</b> To protect your battery from excessive discharges, 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)
<b>Reliability</b> 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.
<b>Autostart</b> 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.
<b>Durable Construction</b> The IRM Series Inverters are a quality product made to withstand vibration and constant movement in mobile or marine installations
<b>Corrosion Conscious Design</b> The IRM Inverters are built for extreme environments using a recyclable powdercoated aluminium casing, a more noble metal than steel.

PHYSICAL	
Input	DC Circuit breaker
Output Connections	Hardwire 3 terminal Junction Box
Enclosure	Powder coated 3mm aluminium
Indication	LED status indication: <ul style="list-style-type: none"> <li>• On</li> <li>• Standby</li> <li>• Overtemperature</li> <li>• Overload</li> <li>• Battery Overvoltage</li> <li>• Battery Undervoltage</li> </ul>
Dimensions	3U x 19" rack x 350mm deep
Cooling	Thermostatically controlled fan



# 500-5000 Watt DC/AC True Sinewave Inverters



## STANDARD MODEL TABLE

MODEL	DC Input				AC Output 50Hz, 230VAC @ 25° C			Peak Efficiency %	Weight kg
	Voltage Nom (Range) V	Inst. Shutdown V	Standby Current mA	Inverter On, no load mA	Continuous Power W*	1/2 Hour Rating W	Surge 5 sec. W		
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 (96-160)	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 (96-160)	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
IRM18196	96(80-140)	68	18	160	1800	2200	5400	94	16
IRM18120	120 (96-160)	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 (96-160)	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 (96-160)	85	26	230	3500	4100	10500	95	24
IRM5048	48 (42-68)	36	55	500	5000	6000	15000	95	30

\*Use VA rating if PF is not equal to 1

### STANDARDS

Designed to meet	AS2279, EN55014	AS3000 C-Tick	AS3001
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### ENVIRONMENTAL

Operating Temperature	-10 to 50° C ambient
Storage Temperature	-20 to 70° C

### OPTIONS

<b>Alarm Contact Output</b>	Activated by any one of the possible alarm conditions: specify option <b>-L</b>
<b>AC Transfer Switch</b>	Automatic changeover to inverter if mains failure: specify option <b>-KX</b>
<b>Output Voltage</b>	110VAC available as a standard option: <b>-HV</b>
<b>Vibration proofing</b>	Ruggidisation as standard option <b>-R</b>
<b>Tropicalisation</b>	Addition of conformal coating to final assembly to MIL spec <b>-G</b>
<b>Earth leakage</b>	RCD fitted to protect personnel and equipment <b>-D</b>
<b>Anderson Connectors</b>	Available in three ratings: 75, 120, 175A