

IRM SERIES

# Industrial Rack-Mount Inverters

The pure sinewave IRM Series inverters are Latronics™ most versatile and customisable inverter range. The IRM Series is a professional 19" rack enclosure with a wide range of options to suit individual applications.

Latronics will cease manufacturing, warranty and repairs on

30th June ~~2025~~ 2024

A true sinewave output with excellent surge power enables the operation of demanding appliances, such as fridges, microwaves, washing machines and pumps.

### Pure Sinewave Waveform

Pure sinewave output provides the ideal power source for modern electronics.

Short circuit proof with a robust design that protects itself against AC shorts.

Latronics IRM Series Stand-alone inverters are backed by our manufacturer's warranty.

Sophisticated circuitry provides protection against overload, short circuit, over temperature and battery low voltage shutdowns.

Fully selectable between 50/60Hz via a set of internal dip switches for international use.

Auto-start circuitry automatically switches the inverter ON and OFF with applied appliances. The Autostart is an important feature as it maximises valuable battery capacity.

Sensitivity of the Autostart can be easily adjusted to either start small appliances or run continuously.

### High Efficiency Toroidal Transformer

Toroidal transformers provide outstanding efficiency and durability.

When sized correctly, high surge rating allows easy starting of motors and high inrush current devices.

### DC Circuit Breaker/ Battery Isolator Switch

DC Circuit Breaker protects the inverter and cables from becoming a potential fire hazard under fault conditions, as well as providing a point of isolation from your batteries when switched OFF.

The circuit breaker is designed for ease of operation and safety. If the Inverter shuts down due to Overload, Undervolts or Overvolts it can be reset.

Full 3500V AC/DC isolation.

Galvanically isolated.

High quality, high current, heavy duty DC leads for low loss power delivery.

### LED Status Indicators

Power indicator (green LED).

This LED flashes when in Standby mode (i.e. no loads connected). When a load is applied the LED will illuminate continuously to indicate that 230V AC is being supplied.

When the Inverter is switched on all 3 LED lights light up for 1 second while the microprocessor performs a start up and system check procedure.

A large range of options from custom voltages and alarm contacts to vibration proofing and conformal coatings are available.

Massive Inrush and Overload Capability.

Rugged Construction.

AUSTRALIAN  
MADE

**LATRONICS**®  
CREATE GOOD ENERGY

# IRM SERIES

## FEATURES

Pure sinewave waveform

Massive inrush and overload capacity

Rugged construction

Designed & manufactured in Australia

4U option available on certain models\*

2 year warranty - 1 Year from 1st July 2023

DC circuit breaker / battery isolator switch

High efficiency toroidal transformer

Galvanically isolated

## MODEL SPECIFICATIONS

Model no	DC input	Power
IRM512	12V	500W
IRM624	24V	600W
IRM648	48V	600W
IRM696	96V	600W
IRM6120	120V	600W
IRM1012	12V	1000W
IRM1224	24V	1200W
IRM1248	48V	1200W
IRM1296	96V	1200W
IRM12120	120V	1200W
IRM1512	12V	1500W
IRM1824	24V	1800W
IRM1848	48V	1800W
IRM1896	96V	1800W
IRM18120	120V	1800W
IRM2012*	12V	2000W
IRM2324*	24V	2300W
IRM2548*	48V	2500W
IRM2596	96V	2500W
IRM25120	120V	2500W
IRM3024*	24V	3000W
IRM3548*	48V	3500W
IRM3596	96V	3500W
IRM35120	120V	3500W
IRM5048*	48V	5000W
4U - IRM4024	24V	4000W
4U - IRM7048	48V	7000W

## Specifications

Input voltage: 12, 24, 36, 48, 72, 96 & 120

Input voltage range: -20% to +45% of nominal

Output waveform: True sinewave <4% THD

Output voltage:  
230V +/- 4% standard  
110V +/- 4% option

Output frequency: 50/60Hz +/- 0.1%

Crest factor: >4

Overload capacity:  
300% 5 seconds (all models)  
120% 30 minutes (110% 12V models)

Operating temperature: -10°C to +50°C  
(can be extended)

Cooling: Thermostatically controlled fan

Power factor: All conditions

Peak efficiency: 90% to 94% model dependent

DC connections: Heavy duty low loss  
battery leads

AC connections: Screw terminal junction box

Standards: AS2279, AS3000, AS3100,  
EN55014 & C-Tick

Protection circuitry: Full electronic protection  
against overload, over-temperature, short  
circuit, battery over and under voltage

Dimensions: 483mm wide x 382mm deep  
x 132mm high

## Product

IRM Series  
500W – 5000W



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