

# Multi-Mode Battery Inverter

An Australian designed and manufactured grid interactive Multi-Mode Battery Inverter tested based on AS4777.2, IEC62109 and IEC62040.

The unique IGBT based technology creates a rugged and reliable inverter with a high-quality AC output. The transformer-based inverter also provides a galvanic isolation between the grid and the load. The system also supports various types of battery back-up such as VRLA, NiCad and Lithium-Ion. Furthermore, with the integrated UPS functions, the inverter ensures an uninterrupted power to load of less than 25 ms.



## FEATURES:

- Grid Interactive Application (AS4777.2 and IEC62040)
- Off-Grid Applications (IEC62109)
- Synchronising to the grid
- Uninterrupted power to the load, < 25 ms
- Export power to the grid
- High efficiency > 80%
- Isolated RS232 or RS485, Ethernet, Modbus RTU, Modbus TCP, SNMP, Internal Webpage, DNP3, USB
- Access facility software
- Full data logging

# STANDALONE POWER SYSTEM | MULTI-MODE BATTERY INVERTER

## TECHNICAL SPECIFICATIONS

Model Number	MMI-10-1P
Inverter Topology	Transformer Isolated
Active Anti-Islanding method	Frequency Instability
Protective Class	Protection Class 1
Over voltage category of AC & DC circuits	Category III
Over voltage category of Communications circuits	Category I
Grid connection	Single phase
Electrical Supply System	TN-C-S
Decisive Voltage Classes	Ethernet and USB ports: Class A AC and DC Circuits: Class C RS485 port: Class B
Inverter Efficiency	94%
Multiple Inverter Combinations	None
DC Circuit Breaker	Must be 80A Non-Polarised DC C-Curve 85kA
Grid Port Circuit Breaker	Must be 100A C-Curve 15kA
Load Circuit Breaker	Must be 50A C-Curve 10kA
Technical Standards Compliances	AS4777.2.2015 AS62040.1.2019 IEC 62109-1 and 62109-2
<b>AC GRID PORT</b>	
Rated Apparent Power	10kVA
Rated Power Factor	0.99
Input Voltage / Frequency	240VAC / 50Hz
Input Inrush Current	16A
Input Maximum Continuous Current	90A
Short Circuit Current Rating	15kA
Output Maximum Continuous Current	45A
Output Inrush Current	45A
Output Maximum Fault Current	110Arms for 60ms
Output Maximum Over Current	104A
<b>AC LOAD PORT</b>	
Rated Voltage	240VAC $\pm$ 2%
Rated Frequency	50Hz $\pm$ 0.2%
Rated Continuous Power	10kW
Rated Apparent Power	10kVA
Rated Current	45A
Inrush Current	83A
Maximum Over current	104A
Maximum Fault current	110Arms for 60ms
Output Power factor	0.7 leading ~ 0.7 lagging

<b>DC BATTERY PORT</b>	
Nominal DC voltage	240Vdc
Maximum Continuous Input Current	50A
Maximum Continuous Output Current	50A
Short Circuit Current Rating	85kA Fuse Protected
Minimum Battery Capacity	100Ah
<b>General Data</b>	
Width x Height x Depth	660mm * 1020mm * 680mm
Weight	110kg
Operating temperature range	-20 to 50C
Storage temperature range	-20 to 60C
Humidity	5-95 %R.H.
Maximum installation height	1000m
Environmental category	Indoor, Unconditioned
Wet location classification	No
Pollution degree classification	III
IP rating	IP20