

# MPS

## MICTRONIX POWER SYSTEMS



# PRODUCT BROCHURE

## 12V 200AH SLIM LINE BATTERY

# INTRODUCTION & FEATURES

The MPS 12V 200Ah slim line battery is a high performance product designed for the Australian market. The battery has been made to suit mobile power applications such as caravan, ute and campers.

Simplicity of installation and ruggedness was a priority in the design process.

- ✔ High discharge power capable of running Air fryers, coffee machines and induction cook tops
- ✔ High charge rate
- ✔ 3mm thick Aluminium case with integrated mounting flange (no battery box required)
- ✔ Huge weight savings over AGM batteries at only 19.5KG
- ✔ Ultra slim at 386 x 360 x 120mm
- ✔ Integrated battery management system
- ✔ Built in electronic fuse with simple reset by charging or disconnecting load
- ✔ High charge and discharge efficiency



# SPECIFICATIONS

<b>MODEL NUMBER</b>	<b>MPS-12-200</b>
Nominal Voltage	<b>12.8V</b>
Nominal Capacity	<b>200Ah</b>
Nominal Capacity watt hours	<b>2.55kWh</b>
Cell type	<b>Pouch</b>
Cell configuration	<b>2P 4S</b>
Cycle Life 100% DOD @ 25 degrees C	<b>≥ 2,500 Cycles</b>
Cycle Life 75% DOD @ 25 degrees C	<b>≥ 5,500 Cycles</b>
Cycle Life 50% DOD @ 25 degrees C	<b>≥ 10,000 Cycles</b>
Cycle Life 100% DOD @ 45 degrees C	<b>≥ 1,200 Cycles</b>
Capacity @ 0°C	<b>170Ah</b>
Capacity @ 55°C	<b>190Ah</b>
Series connection	<b>Not permitted</b>
Parallel connection	<b>Unlimited - contact Mictronix</b>
Recommended depth of discharge	<b>90%</b>
Usable capacity	<b>2.295 kWh</b>
Battery Charging Temperature range	<b>0 - 60°C</b>
Normal Charge Voltage CV/CC	<b>14.4V</b>
Standby (Float) Voltage	<b>14.3V</b>
Maximum Charge Current	<b>150A @ 25°C</b>
Recommended Charge Current for Maximum Life	<b>66A</b>
Battery Discharge Temperature range	<b>-10 - 60°C</b>
Battery Output Voltage Range	<b>11V -14.4V</b>
Continuous Discharge Current	<b>200A @ 25°C</b>
Continuous Discharge Power	<b>2.5kW @ 25°C</b>

Over-charge Protection Per Cell	<b>3.75V ± 0.05V</b>
Over-charge Release Per Cell	<b>3.60V ± 0.05V</b>
Over-charge Release Method	<b>Cell discharges below release voltage</b>
Over-discharge Protection Per Cell	<b>2.10V ± 0.05V</b>
Over-discharge Release Per Cell	<b>2.30V ± 0.05V</b>
Over-discharge Release Method	<b>Disconnect load</b>
Discharge Over Current	<b>210A for 12ms</b>
Short circuit protection	<b>850A for 300us</b>
Over Current Release Method	<b>Disconnect Load</b>
Battery Discharge Over Temperature	<b>Protection at 60°C ± 5°C</b> <b>Release at 50°C ± 5°C</b>
Battery Charge Over Temperature	<b>Protection at 60°C ± 5°C</b> <b>Release at 50°C ± 5°C</b>

Electrical connection type	<b>M8 threaded terminals with bolts (250A rated)</b>
Cooling method	<b>Natural convection</b>
Casing material	<b>Aluminium</b>
Depth	<b>360mm</b>
Width	<b>386mm</b>
Height	<b>120mm</b>
Weight	<b>19.5Kg</b>
Mounting orientation	<b>Mountable in any orientation</b>
Mounting arrangement	<b>Mounting via 4 x M6 holes in flange</b>
IP rating	<b>IP61</b>
Maximum altitude	<b>2000M</b>
Self-discharge Rate	<b>≤ 3% Per Month</b>
Warranty period	<b>5 years</b>
Certifications (cell level)	<b>GB/UN38.3 IEC62619</b>