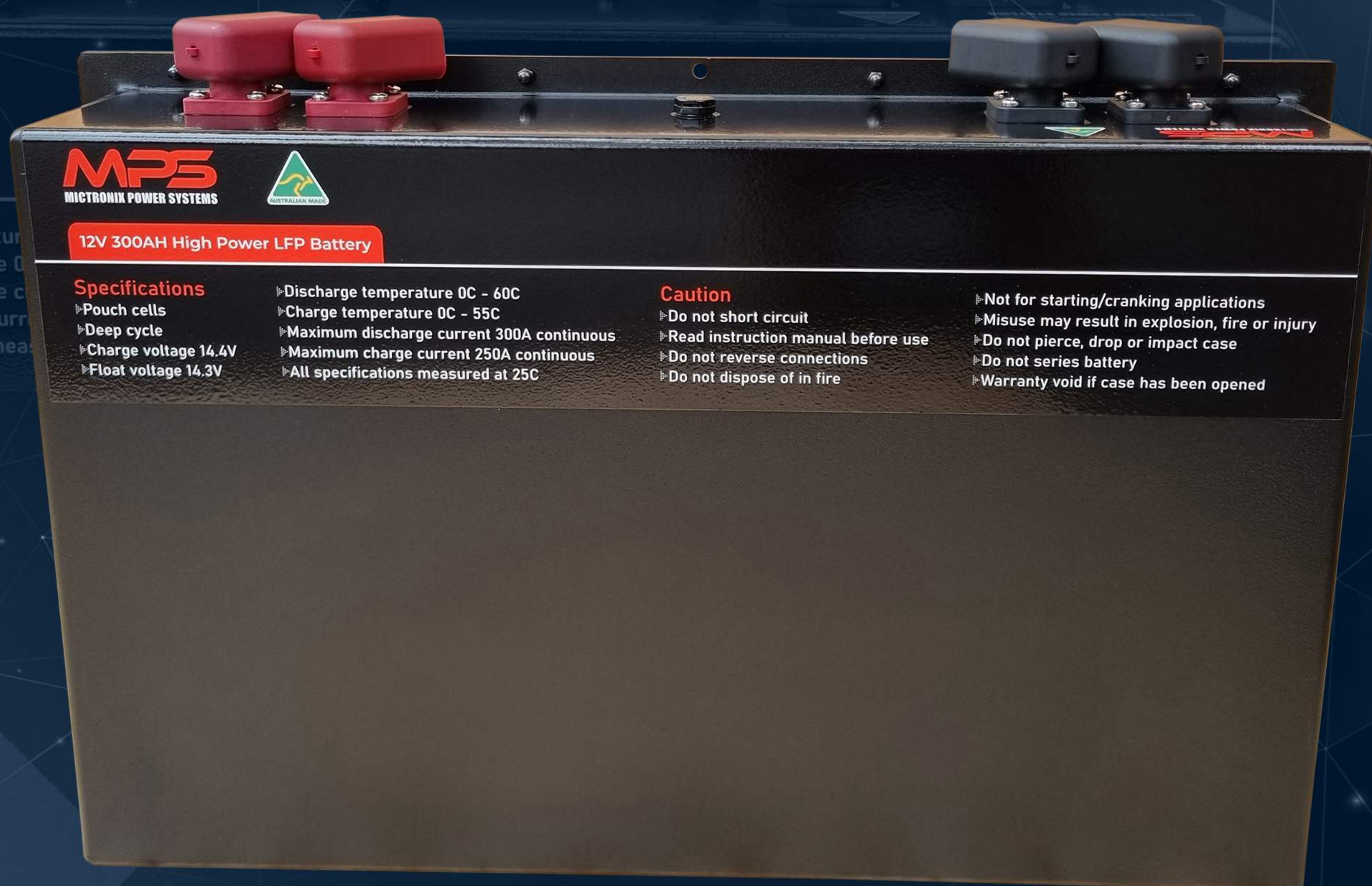


MPS

MICRONIX POWER SYSTEMS



PRODUCT BROCHURE

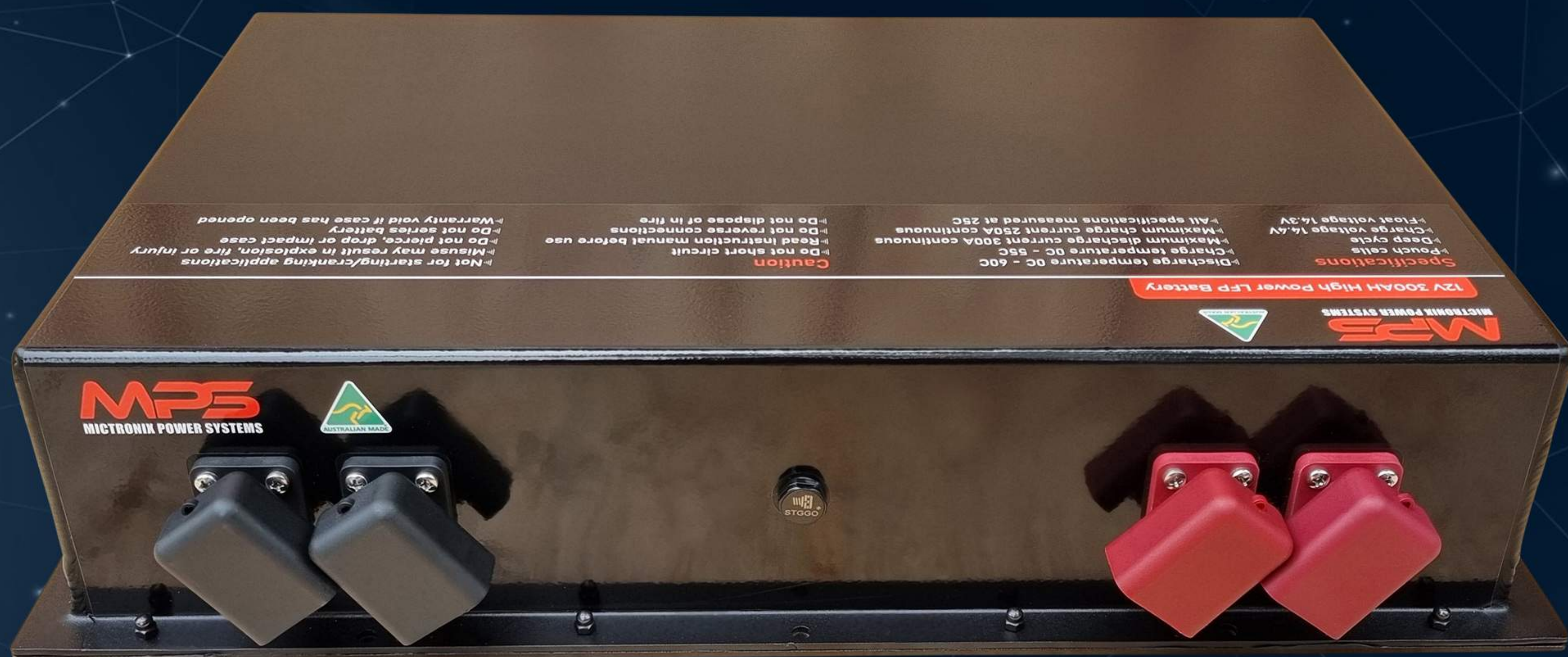
12V 300AH SLIM LINE BATTERY

INTRODUCTION & FEATURES

The MPS 12V 300Ah 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 29.5KG
- ✓ Ultra slim at 555 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

MODEL NUMBER	MPS-12-300
Nominal Voltage	12.8V
Nominal Capacity	300Ah
Nominal Capacity watt hours	3.84Kwh
Cell type	Pouch
Cell configuration	6P 4S
Cycle Life 100% DOD @ 25 degrees C	≥ 2,500 Cycles
Cycle Life 75% DOD @ 25 degrees C	≥ 5,500 Cycles
Cycle Life 50% DOD @ 25 degrees C	≥ 10,000 Cycles
Cycle Life 100% DOD @ 45 degrees C	≥ 1,200 Cycles
Capacity @ 0°C	255Ah
Capacity @ 55°C	285Ah
Series connection	Not permitted
Parallel connection	Unlimited - contact Mictronix
Recommended depth of discharge	90%
Usable capacity	3.456 Kwh
Battery Charging Temperature range. Protected via internal BMS	0 - 60°C
Normal Charge Voltage CV/CC	14.4V
Standby (Float) Voltage	14.3V
Maximum Charge Current	225A @ 25°C
Recommended Charge Current for Maximum Life	100A
Battery Discharge Temperature range.	-10 - 60°C
Battery Output Voltage Range	11V –14.4V
Continuous Discharge Current	300A @ 25°C
Continuous Discharge Power	3.8Kw @ 25°C

Over-charge Protection Per Cell	3.75V ± 0.05V
Over-charge Release Per Cell	3.60V ± 0.05V
Over-charge Release Method	Cell discharges below release voltage
Over-discharge Protection Per Cell	2.10V ± 0.05V
Over-discharge Release Per Cell	2.30V ± 0.05V
Over-discharge Release Method	Disconnect load
Discharge Over Current	315A for 12ms
Short circuit protection	1275A for 300us
Over Current Release Method	Disconnect Load
Battery Discharge Over Temperature	Protection to 60°C ± 5°C Release at 50°C ± 5°C
Battery Charge Over Temperature	Protection to 60°C ± 5°C Release at 50°C ± 5°C

Electrical connection type	2 x M8 threaded terminals with bolts (250A rated)
Cooling method	Natural convection
Casing material	Aluminium
Depth	360mm
Width	555mm
Height	120mm
Weight	29.5Kg
Mounting orientation	Mountable in any orientation
Mounting arrangement	Mounting via 7 x M6 holes in flange
IP rating	IP61
Maximum altitude	2000M
Self-discharge Rate	≤ 3% Per Month
Warranty period	5 years
Certifications (cell level)	GB/UN38.3 IEC62619