

HUBLiON



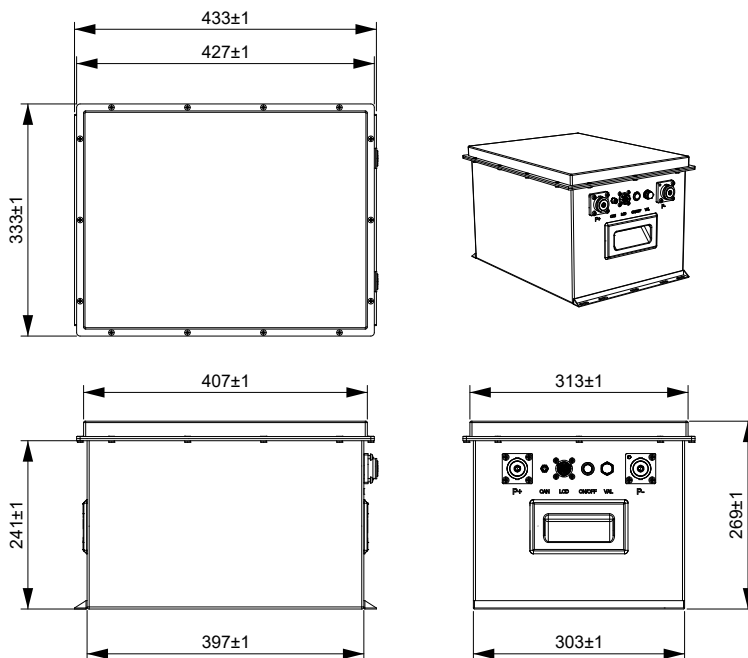
LITHIUM
ION BATTERY

HUB-12.8V-400-LFP-TUV



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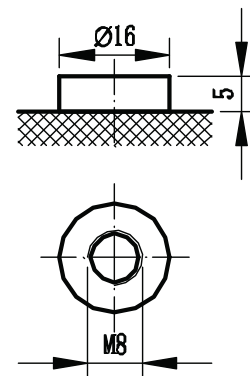
TECHNICAL DRAWING



BENEFITS AND ADVANTAGES

Start at the Core

- ☒ High Reliability
- ☒ Fast and Efficient charge/discharge cycles
- ☒ Deep Discharge capability
- ☒ Fully Recycle capability
- ☒ Light weight
- ☒ Environmentally friendly
- ☒ TUV/UL1973 Approved Battery
- ☒ Safety UN38.3 approved
- ☒ UN3480, CLASS 9
- ☒ cTUVus Certified - ANSI/CAN/UL1973:2022



www.hubpower.ca

4238 Lozells Ave #114 Burnaby, BC V5A 0C4

Phone: (604) 420-7737

Email: sales@hubpower.ca

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Amp Hour Capacity	400AH
Reserve Capacity @ 25A	960 min
Energy Density	5120Wh
Resistance - Milliohms	< 10
Efficiency - round trip	> 99.5%
Self Discharge per Month	< 2%

**Max 4 - series connections 12.8-51.2V

**Max 16 - parallel connections 400-6400AH

**DO NOT configure series and parallel connections simultaneously

TEMPERATURE SPECIFICATIONS

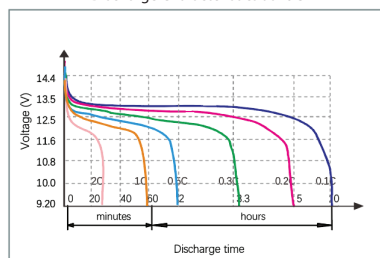
Discharge Temperature	(-20 to 60C)
Charge Temperature	(0C to 45C)
Storage Temperature	(-5 to 35C)
BMS High Temp Cut Off	75C
BMS Reconnect Temp	65C

CHARGE SPECIFICATIONS

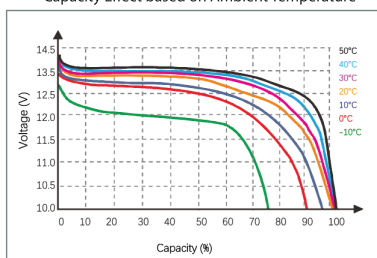
Recommend Charge current	10A-125A
Max Charge current	250A
Charge current (0 to -10C)	50A
Charge current (-20 to -10C)	25A
Recommended Charge voltage	14.4 - 14.6V
BMS High voltage disconnect	15.0V
BMS High voltage reconnect	14.4V
Balancing voltage	≥3.2V/cell

PERFORMANCE CHARACTERISTICS

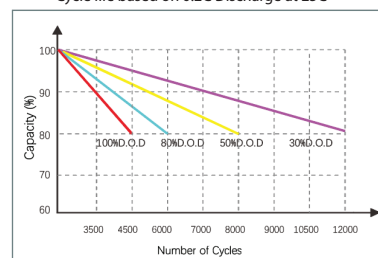
Discharge Characteristics at 25C



Capacity Effect based on Ambient Temperature



Cycle life based on 0.2C Discharge at 25C



DISCHARGE SPECIFICATIONS

Max Cont Discharge current	250A
Peak Discharge Current	1200A
BMS Current Cut Off (10S)	>300A
BMS Current Cut Off (3S)	>500A
BMS Current Cut Off (1S)	>600A
BMS Low Voltage Cut Off	12.3V
BMS Low Reconnect Voltage	12.7V

MECHANICAL SPECIFICATIONS

Dimensions	16.8 x 13.1 x 10.6in
L x W x H	426.8*332.8*269.2mm
Weight	92.4lb (42KG)
Terminal Type	M8
Terminal Torque	90 in lbs (10NM)
Case Material	Aluminum Alloy
Case IP Rating	IP65
Cell Type - Chemistry	LiFePO4
Cell Type	Prismatic

HEATING CIRCUIT

Operating Range	(-20 to 5C)
Heating Circuit Engages at	≤ 0C
Heating Circuit Disengages at	+5C

SAFETY TESTED

Safety Ratings	CB / CE UN38.3 TUV/UL1973
Shipping Classification	UN3480, CLASS 9