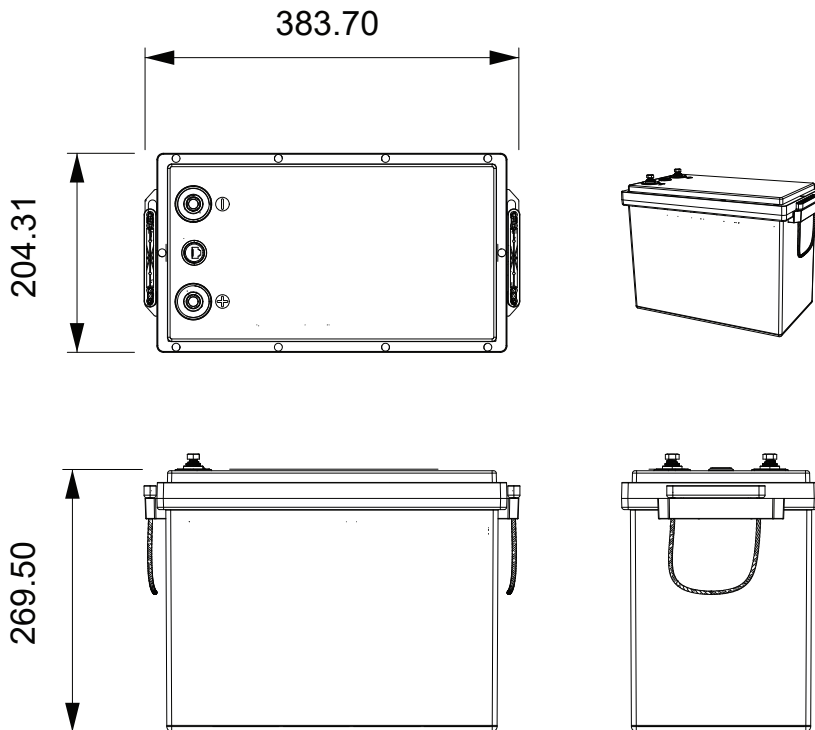


HUBLiON



HUB-12.8V-314-LFP

TECHNICAL DRAWING





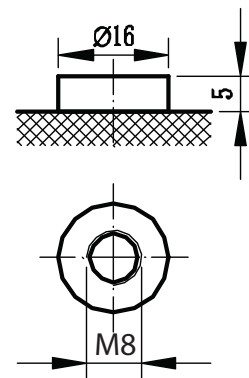
LITHIUM ION BATTERY

HUB-12.8V-314-LFP

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
- ☒ UL approved Cells
- ☒ Safety UN38.3 approved
- ☒ UN3480, CLASS 9
- ☒ cTUVus Certified - ANSI/CAN/UL1973:2022



ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Amp Hour Capacity	314AH
Reserve Capacity @ 25A	753.6 min
Energy Density	4019Wh
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 314-5024AH

**DO NOT configure series and parallel connections simultaneously

TEMPERATURE SPECIFICATIONS

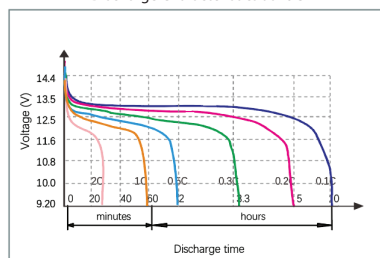
Discharge Temperature	(-20 to 60C)
Charge Temperature	(0C to 45C)
Storage Temperature	(-5 to 35C)
BMS High Temp Cut Off	80C
BMS Reconnect Temp	50C

CHARGE SPECIFICATIONS

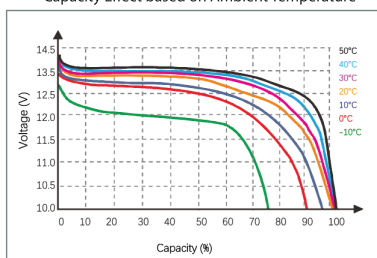
Recommend Charge current	10A-125A
Max Charge current	250A
Charge current (0 to -10C)	<0.1C
Charge current (-20 to -10C)	<0.05C
Recommended Charge voltage	14.4 - 14.6V
BMS High voltage disconnect	15.0V
BMS High voltage reconnect	14.4V
Balancing voltage	≥3.2V/cell

PERFORMANCE CHARACTERISTICS

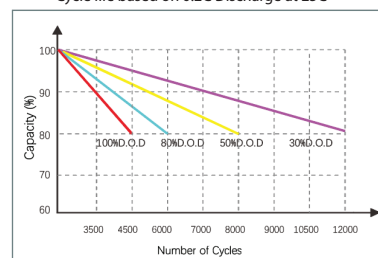
Discharge Characteristics at 25C



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)	>250A
BMS Current Cut Off (3S)	>300A
BMS Current Cut Off (1S)	>600A
BMS Low Voltage Cut Off	12.3V
BMS Low Reconnect Voltage	12.7V

MECHANICAL SPECIFICATIONS

Dimensions	15.05 x 8.01 x 10.67in
L x W x H	382.3 x 203.5 x 271mm
Weight	57.2lbs (26KG)
Terminal Type	M8
Terminal Torque	90 in lbs (10NM)
Case Material	ABS
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 @ cell UL1973 @ cell
Shipping Classification	UN3480, CLASS 9