

BLP 36-100

NCM Li-ION BATTERY

FEATURES

NCM Lithium Technology
Integrated Battery Management System(BMS).
Bluetooth/RS485/RS232/SMBus/CANBus (Optional). SOC
LED/LCD Indicator(Optional).

PERFORMANCE

Long Cycle Life>1000cycles @80% DOD.
High Density, High Discharge Current, High Temperature Range.
Low Weight, Free Maintenance. Fast Charging.
Environment Friendly.



BLP 36-100 (36V -100Ah)

Electrical Parameters

Nominal Voltage	36 V
Rated Capacity	100 Ah
Energy	3600 Wh
Resistance	≤ 30mΩ
Efficiency	99 %
Cycle Life	>1000cycles @1C,80% DOD
Self Discharge	2% per Month
Max.modules in series/parallel	2S/4P

Mechanical Parameters

Dimension (L x W x H)	523 x 240x 225 mm
	20.6 x 9.4 x 8.9"
Weight	22,2 kg (48.9 lbs)
Terminal Type	M8 Sx
Battery Housing	ABS, UL-94 V-0
Housing Protection	IP56
Cell Type-Chemistry	NCM Cylindrical Cell
SOC Display(Optional)	LED/LCD Indicator

Discharge Parameters

Continuous Discharge Current	100 A
Pulse Discharge Current	110 A (< 5 seconds)
Recommended V disconnect	30 V
BMS discharge cut-off voltage	28 V
Reconnect Voltage	30 V
Short Circuit Protection	200~600 μs

Charge Parameters

Charge Method	CC-CV
Charge Voltage	42 V
Recommended Float Voltage	40 V
Recommended charge current	50 A
Maximum Charge Current	100 A
BMS Charge Cut-off Voltage	42 V

Compliance Certificate

Certifications	UL 1642 (Cell)
	CE
Shipping Classification	UN 38.3

Temperature Parameters

Discharge Temperature	-30 to 60°C (-22 to 140°F)
Charge Temperature	0 to 45°C (32 to 113°F)
Storage Temperature	-40 to 60°C (- 40 to 140°F)
BMS High Temperature Cut-off	80°C (176°F)



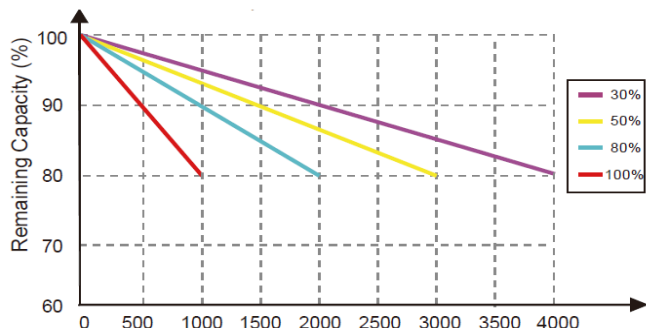


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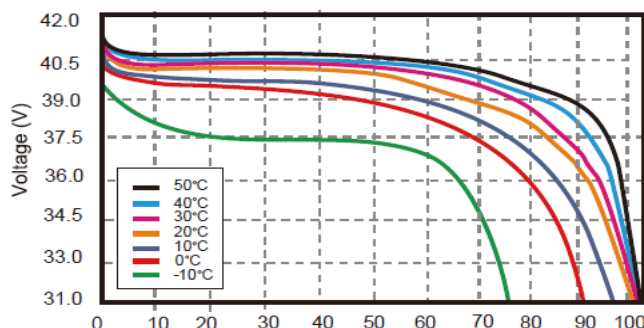
BLP 36-100 (36V -100Ah)

Performance Characteristics

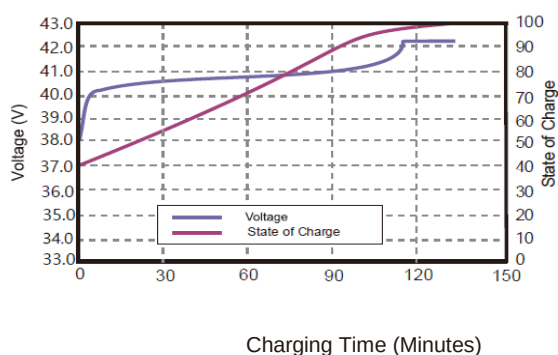
CYCLE LIFE vs.DEPTH OF DISCHARGE(DOD)
DISCHARGE@1C, 25 C



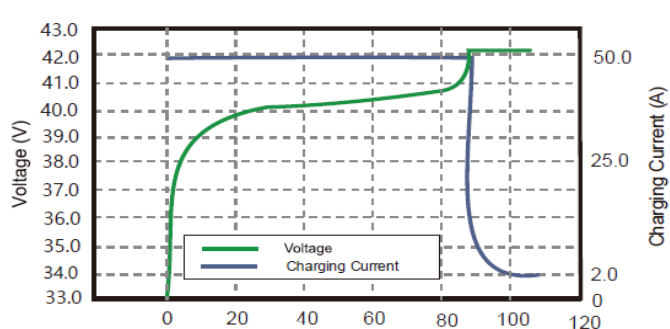
DISCHARGE CAPACITY at VARIOUS TEMPERATURES DISCHARGE
@1C



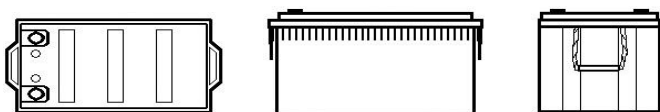
STATE OF CHARGE CURVE @0.5C, 25 C



CHARGING CHARACTERISTICS @0.5C, 25 C

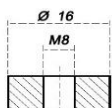
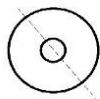


Battery Layout



Terminal

M8



Battery Recycle



Note: Do Not Mix With Sealed Lead Acid Batteries When Recycling

See MAP User's Manual for Proper Operation.

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Battery Applications

- Data Center UPS
- Telecom Backup Power
- Military Power Supply
- Solar Energy Storage System
- Solar Street LED Lightings
- Golf Trolley & Golf Carts
- Aerial Work Platform
- Floor Cleaning Machines
- Power Tools, Lawn Mower
- Electric Bike & Motorcycles
- Medical Devices
- Electric Ships
- Passenger Vehicles
- Autonomously Guided Vehicles (AGVs)
- Industrial Robotics & Handling Equipment
- Electric Mobilities(E-scooters, Wheelchair)