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BLP 24-100

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 24-100 (25,2V - 100Ah)

Electrical Parameters	
Nominal Voltage	25,2 V
Rated Capacity	100 Ah
Energy	2520 Wh
Resistance	≤ 30mΩ
Efficiency	99 %
Cycle Life	>1000cycles @1C,80% DOD
Self Discharge	1% per Month
Max.modules in series/parallel	2S/4P

Mechanical Parameters	
Dimension (L x W x H)	330 x 173 x 212 mm
	12.9 x 6.8 x 8,35"
Weight	14,7 kg (32.4 lbs)
Terminal Type	M8 Sx
Battery Housing	ABS , UL94 V-0
Housing Protection	IP56
Cell Type-Chemistry	NCM Cylindrical Cell
SOC Display(Optional)	None

Discharge Parameters	
Continuous Discharge Current	100 A
Pulse Discharge Current	300 A (< 5 seconds)
Recommended V disconnect	21 V
BMS discharge cut-off voltage	20 V
Reconnect Voltage	21 V
Short Circuit Protection	200~600 μs

Charge Parameters	
Charge Method	CC-CV
Charge Voltage	29,4 V
Recommended Float Voltage	28 V
Recommended charge current	50 A
Maximum Charge Current	100 A
BMS Charge Cut-off Voltage	29,4 V

Compliance Certificate	
Certifications	UL 1642 (Cell)
	CE
Shipping Classification	UN 38.3

Temperature Parameters	
Discharge Temperature	-20 to 65°C (-4 to 149°F)
Charge Temperature	0 to 50°C (32 to 122°F)
Storage Temperature	-20 to 45°C (- 4 to 113°F)
BMS High Temperature Cut-off	65°C (149°F)



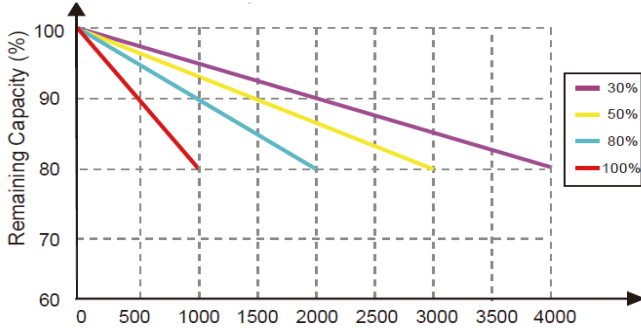


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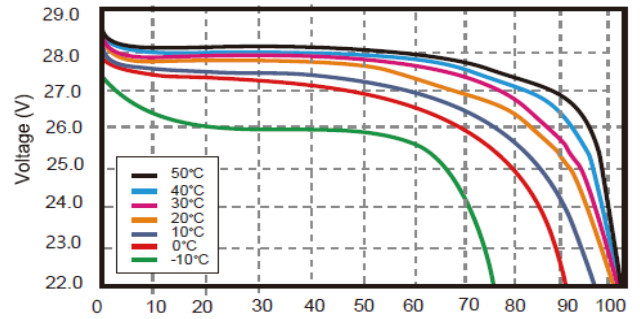
BLP 24-100 (25,2V - 100Ah)

Performance Characteristics

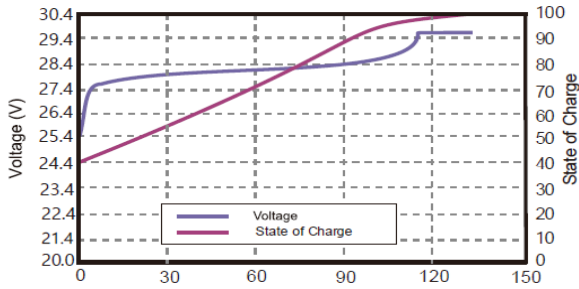
CYCLE LIFE vs.DEPTH OF DISCHARGE(DOD)
DISCHARGE@1C, 25 C



DISCHARGE CAPACITY at VARIOUS TEMPERATURES DISCHARGE
@1C

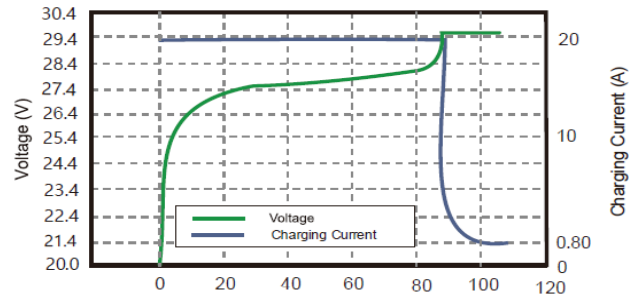


STATE OF CHARGE CURVE @0.5C, 25 C

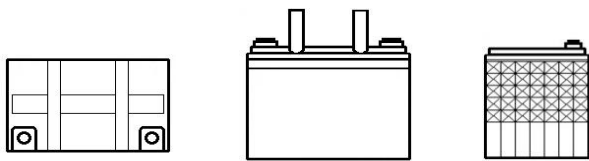


Charging Time (Minutes)

CHARGING CHARACTERISTICS @0.5C, 25 C

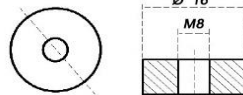


Battery Layout



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)