

FEATURES Lithium Iron Phosphate (LiFePO₄): the Safest Lithium Technology.
Integrated Battery Management System (BMS).
Bluetooth/RS485/RS232/SMBus/CANBus (Optional).
SOC LED/LCD Indicator (Optional).

PERFORMANCE Long Cycle Life > 2000 cycles @ 100% DOD.
High Density, High Discharge Current, High Temperature Range.
Low Weight, Free Maintenance.
Fast Charging
Environment Friendly.



LFP12.8-60(12.8V60Ah)

BATTERY DATA SHEET

Electrical Parameters

Nominal Voltage	12.8V
Rated Capacity	60Ah
Energy	768Wh
Resistance	≤30mΩ
Efficiency	99%
Cycle Life	>2000cycles @ 1C, 100% DOD
Self Discharge	2% per Month
Max. Modules in Series/Parallel	4S/20P

Mechanical Parameters

Dimension (L x W x H)	260x 168x 210mm 10.24x 6.61x 8.27"
Weight	8.82kg (19.44lbs)
Terminal Type	M6
Battery Housing	ABS, UL-94 V-0
Housing Protection	IP56
Cell Type - Chemistry	LiFePO ₄ Cylindrical Cell
SOC Display (Optional)	LED/LCD Indicator

Discharge Parameters

Continuous Discharge Current	80A
Pulse Discharge Current	90A (<3seconds)
Recommended Volt. Disconnect	10V
BMS Discharge Cut-off Voltage	8V
Reconnect Voltage	9.2V
Short Circuit Protection	200~600 us

Charge Parameters

Charge Method	CC-CV
Charge Voltage	14.4~14.8V
Recommended Float Voltage	13.8V
Recommended Charge Current	30A
Maximum Charge Current	60A
BMS Charge Cut-off Voltage	15.6V

Compliance Certificate

Certifications	UL1642(cell)
	CE
	IEC62133 & CB
	KC
	BIS
Shipping Classification	UN3480, Class 9, UN38.3

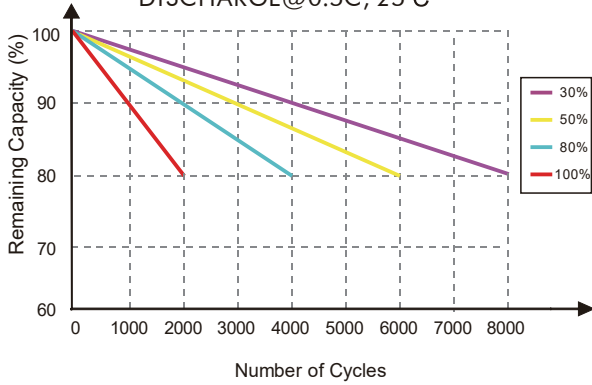
Temperature Parameters

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)

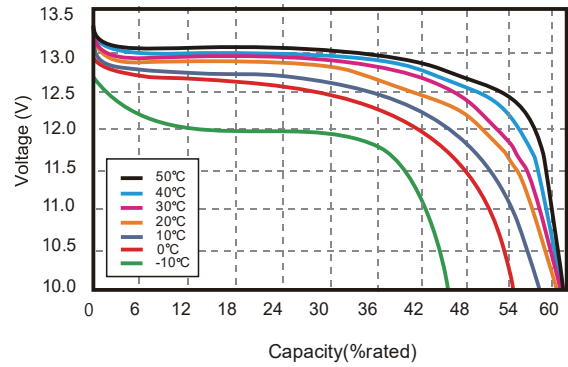


Performance Characteristics

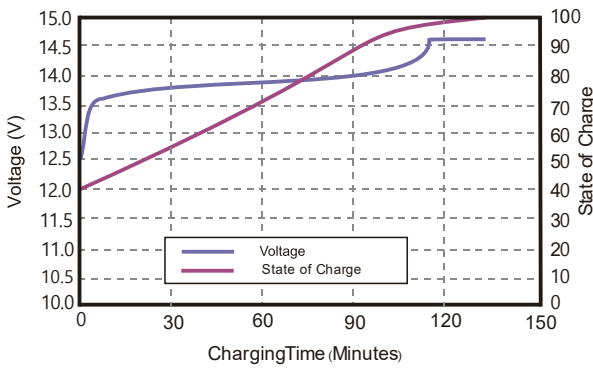
CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD)
DISCHARGE@0.5C, 25°C



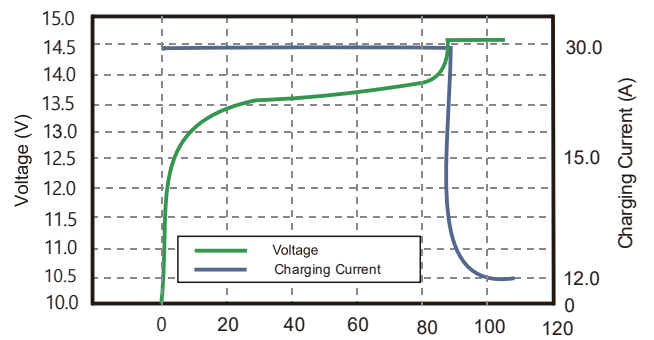
DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @0.5C, 25°C



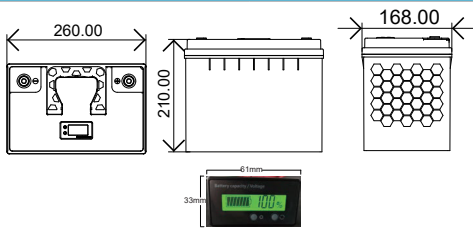
STATE OF CHARGE CURVE @0.5C, 25°C



CHARGING CHARACTERISTICS @0.5C, 25°C

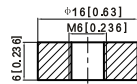


Battery Dimension



M6 -1.0x 6mm

Threaded Hole



Battery Recycle



Battery Applications

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

NOTE: Do Not Mix With Sealed Lead Acid Batteries When Recycling.
See Orbus User's Manual for Proper Operation.
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