












LITHIUM IRON PHOSPHATE BATTERY

640Wh 12.8V 50Ah

FEATURES & BENEFITS

-  Safe & Stable Chemistry
-  Vibration Resistant
-  Long Shelf Life
-  Built-in BMS
-  Light Weight
-  High Cycle Life
-  Communication Port
-  BMS-Accessibility
-  Flame Retardant ABS Case
-  Fast Charging
-  UL, IEC, CE and UN Certified

SPECIFICATION

Nominal Voltage	12.8V
Nominal Capacity	50Ah
Stored Energy	640Wh
Reserve Capacity (@10A)	300 minutes
Internal Resistance	≤ 30.0 mΩ
Self-discharge Rate	<3%/month
Cells	IFR26650-3.6Ah
Long Term Storage	Charge every 6 months or as soon as OCV is 12.8V
Series & Parallel	Single Use Only
Life Expectancy (years)	6 years at one cycle per day

CHARGE PARAMETER

Recommended Charge Current	10A
Maximum Charge Current	25A
Fast Charge - Maximum Time	180 minutes
Recommended Charge Voltage	14.6V
Balancing Voltage	<14.4V (3.6V/cell)
BMS Charge Cut-off Voltage	<15.6 V (3.9V/Cell)

DISCHARGE PARAMETER

Maximum Continuous Current	25A
Peak Discharge Current	32(3S)
BMS Discharge Cut-off Current	60 A ± 1 A (31mS)
BMS Discharge Cut-off Voltage	>10.0 V (2S) (2.5V/Cell)
Reconnect Voltage (By Charger)	11.2V (2.8V/cell)
Short Circuit Protection	250 - 500μS

TEMPERATURE PARAMETER

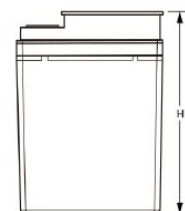
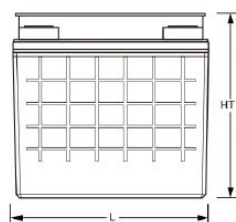
Discharge Temperature	-4 ~ 131 °F (-20 ~ 55 °C)
Charge Temperature	32 ~ 113 °F (0 ~ 45 °C)
Storage Temperature	23 ~ 95°F (-5 ~ 35°C)
BMS High-temp Cut-off	149°F (65°C)
BMS High-temp Reconnect	131 °F (55 °C)

MECHANICAL SPECIFICATION

Length(L)	7.70"(195mm)
Width(W)	5.20"(130mm)
Height (H/HT)	7.20"/7.20"(183/183mm)
Weight	12.98 lbs (5.9Kg)
Terminal Type	T11(M6)
Case Material	ABS
Enclosure Protection Rating	IP 65
Communication Ports	RJ45
Communication Protocol	SMBus

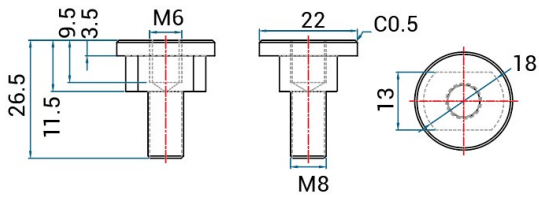


L=195mm(7.70")
W=130mm(5.20")
HT=183mm(7.20")
H=183mm(7.20")

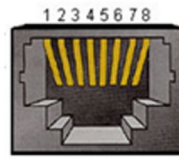


Refer to AkkuPoint AG User Guide and Technical Manual for more detailed information and installation instructions

Terminals



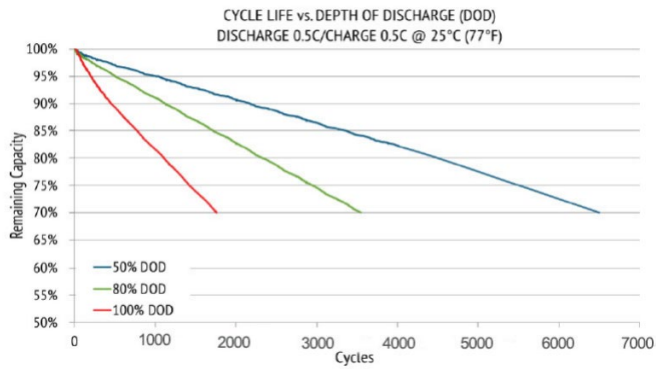
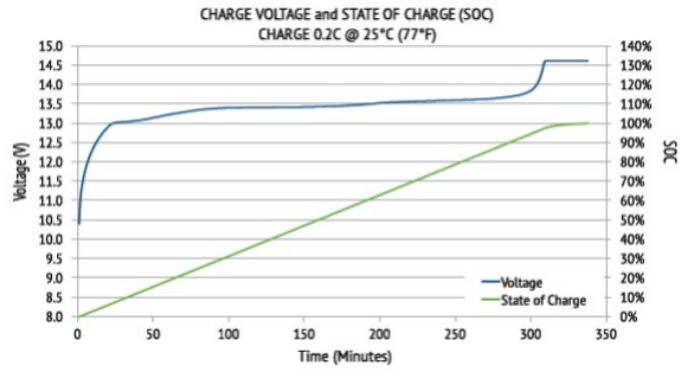
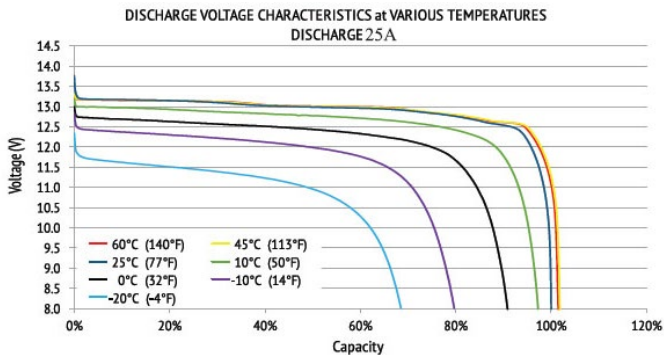
Comm Ports RJ45



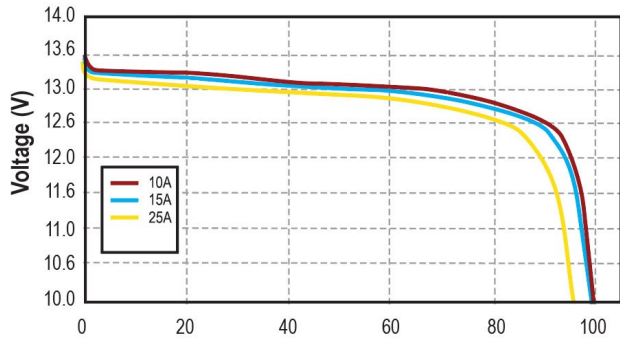
SMBUS terminal defination:

1. Pin 1=GND
2. Pin 6=SMBC
3. Pin 7=SMBD

LITHIUM IRON PHOSPHATE BATTERY



Discharge characteristic at different rate at room temperature



Refer to Lithova User Guide and Technical Manual for more detailed information and installation instructions

Applications

- ✓ Solar / Energy Storage
- ✓ Offroad Vehicles
- ✓ Marine
- ✓ Golf cart
- ✓ AWP
- ✓ Recreational Vehicles
- ✓ Portable Power
- ✓ Drop-In AGM/VRLA Replacement

COMPLIANCE

Certifications	Battery: CE, UN38.3, Cells: UL1642, IEC62133
Shipping Classification	UN 3480, Class 9
Environmental Friendly	RoHS & Reach

SAFETY

- ⊗ Do Not: Disassemble, Puncture, Open, Crush
- ⊗ Do Not: Incinerate or Immerse in liquid of any kind



UN38.3

