Iron-V

LFP24-40EV (24V 40Ah) Specification

Iron-VLithium
IronPhosphateBattery

IEEE/UL Battery
Sizing by
MooreU
610-952-6067
www.mooreu.com

FEATURES

Cost Effectiveness

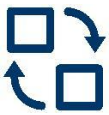
Smart Management

Longer ServiceLife

Guaranteed Safety

FastCharge

Drop-in Replacement



TechnicalCharacteristics

NORMINALCHARACTERISTICS	
NominalVoltage	25.6V
NominalCapacity	40Ah
Energy	1024Wh
IR	≤10mΩ @100%SOC
Efficiency	≥99.5%
MaximumModulesinSeries	1 （SingleUse）

CHARGE&DISCHARGECHARACTERISTICS	
VoltageWindow	20-29.2V
Max.ContinuousChargeCurrent	40A
Max.ContinuousDischargeCurrent	40A
PeakDischargeCurrent	100A （10s±2s）

OPERATINGCONDITIONS	
CycleLife	≥3,000
OperatingTemperature	Charge:0℃ ~60 ℃
	Discharge: -30 ℃~60℃
StorageTemperature	0℃ ~30℃
StorageDuration	12monthsat25℃
HeatingFunction	Optional

MECHANICALCHARACTERISTICS	
CaseMaterial	ABS
Dimension (L*W*H)	258*166*215 mm
Weight	10.5Kg
TerminalType	F12(M8)
IPgrade	IP65
BCIGroupNO.	24
CellType-Chemistry	PrismaticLiFePO4

BMSCHARACTERISTICS	
PrimaryChargingProtection	Current:55~65A
	Delaytime:28~32S
SecondaryChargingProtection	Current: ≥65A
	Delaytime:1~2S
PrimaryDischargingProtection	Current:50A~100A
	Delaytime:10S
SecondaryDischargingProtection	Current: ≥100A~400A
	Delaytime:500mS
OverchargeVoltageProtection	Voltage:30.8V
	Delaytime:1-2S
Over-dischargeVoltageProtection	Voltage:18.4V
	Delaytime:1-2S
TemperatureProtection	PCBtemperature ≥90℃
	Recover temperaturer ≤75℃
CommunicatingFunction	Bluetooth(optional)

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ConstantCurrentDischargeData(Amperes@25℃)

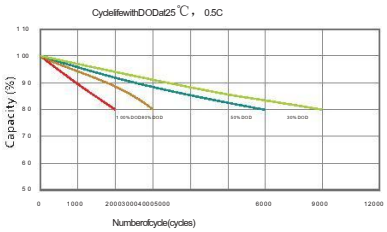
	1h	2h	3h	5h	10h
Cut-offvoltage(20V)	40A	20A	13.3A	8A	4A

ConstantPowerDischargeData(Watts&@25℃)

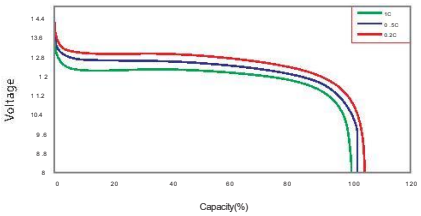
	1h	2h	3h	5h	10h
Cut-offvoltage(21.6V)	925W	473W	324W	195W	104W

CycleNo.VsDOD%

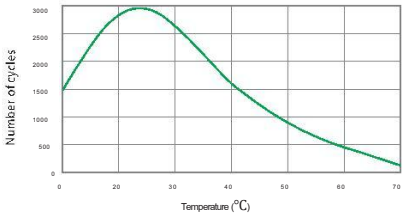
NumberofCyclesVs.DOD



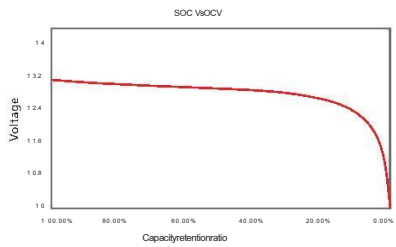
DischargePerformanceatR.T.



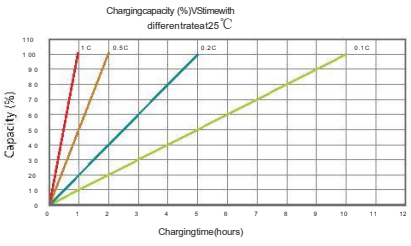
CycleLifeinRelationtoTemperature



BatteryCapacity(C)Vs.OpenCircuitVoltage(OCV)



BatteryCapacityVs.ChargingTime



TemperatureEffectsonCapacity