



3650A-H

Voltage: 38.4V | Capacity: 50AH | Group: 3D

Features: IP65, Bluetooth, Self-Heating

11 YEAR
MANUFACTURER
WARRANTY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	38.4V
Nominal Capacity	50Ah
Cell Configuration:	12S
Energy Stored	1.92KWh
Max Charge Voltage:	43.8V
Operating Voltage Range:	30V - 43.8V
Series Connections	Max (1) in Series
Parallel Connections	Max (4) in Parallel, Plug & Play
Low-Temperature Charge Protection	Yes
Bluetooth:	Yes
Self-Heating:	Yes

DISCHARGE SPECIFICATIONS

Max Continuous Discharge:	100A
Max Discharge 10 Sec:	130A
Discharge Temp Range:	-20°C (-4°F) / 60°C (140°F)

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-20°C (-4°F) - 60°C (140°F)
Charge Temperature	0°C (32°F) - 55°C (131°F)
Recommended Storage Temperature	0°C (32°F) - 35°C (95°F)
Cell Charge Temperature	0°C (32°F) - 55°C (131°F)
Reconnect Temperature	122 °F (50°C)

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	13.0 x 6.8 x 9.44"
Weight	35 lbs
Case Material	ABS & PC blend (UL94-V0 flame rating)
Enclosure Protection	IP65
Cell Type - Chemistry:	Prismatic - LiFePO4
Terminal Type:	M8 Female

CHARGE SPECIFICATIONS

Max Continuous Charge:	100A
Max Charge 10 Sec:	120A
Bulk/Absorption:	42.6V-43.2V
Absorption End Condition:	Stop when charge current ≤C/20 or 15 min max
Float Voltage:	Disabled (preferred) or 40.0V-40.8V
Re-bulk:	39.6V
Temperature Compensation:	0mV/°C (none)
Equalization:	Disabled
Battery Charge Temperature Range:	0°C (32°F) / 55°C (131°F)
BMS High Voltage Cutoff:	43.8V
SoC Recalibration:	43.8V

COMPLIANCE SPECIFICATIONS

Certifications	UL 1642 (Cells) UL 9540A (Cells) IEC 62619:2022 CE, RoHS
Shipping Classification	UN 38.3, CLASS 9

DIMENSIONAL SPECIFICATIONS

