



12105AH

Voltage: 12.8V | Capacity: 50AH | Group 24

Features: IP54, Bluetooth, Self-Heating

11 YEAR
MANUFACTURER
WARRANTY



ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	105Ah
Cell Configuration:	4S1P
Energy Stored	1.34KWh
Max Charge Voltage:	14.6V
Operating Voltage Range:	10.0 - 14.6V
Series Connections	Max (4) in Series
Parallel Connections	Max (4) in Parallel, Plug & Play
Low-Temperature Charge Protection	Yes
Bluetooth:	Yes
Self-Heating:	Yes

CHARGE SPECIFICATIONS

Max Continuous Charge Current:	100A
Bulk/Absorption:	14.2V - 14.6V
Absorption End Condition:	Stop when charge current ≤C/20 or 15 min max
Float Voltage:	Disabled (preferred) or 13.3V - 13.6V
Re-bulk:	13.2V
Temperature Compensation:	0mV/°C (none)
Equalization:	Disabled
Battery Charge Temperature Range:	0°C (32°F) / 55°C (131°F)
BMS High Voltage Cutoff:	14.6V
SoC Recalibration:	14.6V

DISCHARGE SPECIFICATIONS

Max Continuous Discharge:	105A
Max Discharge 10 Sec:	200A
Discharge Temp Range:	-20°C (-4°F) / 60°C (140°F)

COMPLIANCE SPECIFICATIONS

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

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-20°C (-4°F) - 60°C (140°F)
Charge Temperature	-20°C (4°F) - 55°C (131°F) (with heating)
Recommended Storage Temperature	0°C (32°F) - 35°C (95°F)

DIMENSIONAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	10.25 x 6.75 x 9"
Weight	22.1 lbs
Case Material	ABS & PC blend (UL94-V0 flame rating)
Enclosure Protection	IP54
Cell Type - Chemistry:	Prismatic - LiFePO4
Terminal Type:	M8 Female

