DATA SHEET

51.2V 105AH

Model: PE48v-105a-THIN | LiFePO4 Lithium

51.2V	105Ah	5,376 Wh	LiFePO4	104 lbs	IP66
VOLTAGE	CAPACITY	ENERGY	CHEMISTRY	WEIGHT	PROTECTION

ELECTRICAL SPECIFICATIONS

Nominal Voltage	51.2V
Nominal Capacity	105Ah
Capacity @ 20A	252 min
Cell Configuration	1P16S
Cell Type / Chemistry	Prismatic LiFePO4
Efficiency	99%
Self Discharge	1-3% per month

DISCHARGE SPECIFICATIONS

Max Continuous Current	250A
Peak Discharge (30s)	520A +/- 15.6A
BMS Cut-off (50s)	260A +/- 7.8A
BMS Cut-off (30s)	520A +/- 15.6A
BMS Voltage Cut-Off	40V
Recom. LV Disconnect	48V
Reconnect Voltage	41.6V
Temperature Range	-4 F to 140 F

CHARGE SPECIFICATIONS

Recom. Charge Voltage	40V - 58.5V
Max Charging Current	105A
Recom. Charge Current	5 - 52A
BMS Voltage Cut-Off	58.5V
Input Current Cut-off (1s)	375A
Reconnect Voltage	< 58.5V
Temperature Range	14 F to 131 F

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	20.00" x 8.46" x 10.98"
Weight	104 lbs
Case Material	Steel
Terminal Type	M8
Terminal Material	Brass
Enclosure Protection	IP66

COMMUNICATION

Bluetooth	Yes
BMS Protocol	CANBUS

SAFETY PROTECTIONS

✓ Over-Current Discharging	Yes
✓ Over-Current Charging	Yes
✓ Pack Under / Over Voltage	Yes
✓ Short Circuit Protection	Yes
✓ Low / High Temp Discharging	Yes
✓ Low / High Temp Charging	Yes

CERTIFICATIONS

Cell Certifications	UL1642 | IEC62619
Battery Certifications	UN38.3 | MSDS
Shipping Classification	UN 3480 | Class 9

PUREENERGY APP - BLUETOOTH

- ✓ Voltage (overall + individual cells)
- ✓ Current Amp Draw
- ✓ Remaining Charge / Discharge Time
- ✓ Current Cell Temperature
- ✓ Lifetime Power Cycles
- ✓ Remote Technical Support
- ✓ Firmware Update

51.2V | 105Ah | 5,376 Wh | LiFePO4 Prismatic | IP66 Rated

Pure Energy Lithium batteries feature advanced BMS protection, Bluetooth monitoring via the PureEnergy App, and are engineered for maximum cycle life in golf cart, marine, RV, and industrial deep-cycle applications.

PURE ENERGY BATTERY
An Energy Products, Inc. Brand

PureEnergy@energyprod.com
(248) 545-7700

pureenergybattery.com
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