

# AURA™ POWERCAP 600

BY EXPION360.

## AURA POWERCAP 600 EX-AURA001



### FEATURES:

- Exclusively compatible with Expion360 Group 24 Batteries (EX-G24-60C/80C/95XDP)
- Compatible with Expion360 Group 24 Single Battery Tie-down system
- Smart display and Bluetooth ready
- Solar panel kit compatible
- Ergonomic handle
- AC charging
- Low weight
- Portable

Mechanical Parameters	
Unit Dimensions (Power Module Only)	10.2 in x 6.9 in x 3.8 in (258 mm x 177 mm x 97 mm)
Install Dimensions With EX-G24 Size Battery	10.6 in x 6.9 in x 12.1 in (270 mm x 177 mm x 306 mm)
Unit Weight (Power Module)	5.7 lb (2.6 kg)
Unit Weight Installed With EX-G24 Size Battery	25 lb to 31 lb (11.3 kg to 14.0 kg)
Idle Power Loss	≤10 W
Communication	Built in Display / Bluetooth
Operating Temperature	-4 °F to 104 °F (-20 °C to 40 °C)
Cooling	Push-Pull Fans

Charging	
AC Charger	100 W
Charging Temperature	32 °F to 104 °F (0 °C to 40 °C)
Solar Charger (Solar Panel and MPPT are Sold Separately) (EX-SP-120W & EX-10ASC)	120 W

DC Input	
Nominal Voltage	12.8 V
Rated Current	80 A @ 12 V
Compatible Battery	EX-G24-60C/80C/95XDP

DC Output	
12 V Power Port	120 W
USB-A	15 W
USB-C / Type-C	15 W
Power Delivery 3.0 (PD 3.0)	100 W

AC Output	
Nominal Voltage	110 Vac
Nominal Frequency	60 Hz
Rated Power	600 W @ 77 °F (25 °C)
Surge	660 W (3 s) / 900 W (50 ms)

Protection	
DC Input Over Current	110 A
DC Input Low Voltage	10.6 V
DC Input Over Voltage	15.0 V
AC Output Over Current	6 Aac
Input Short Circuit	Internal Fused
Output Short Circuit	Programmed

**NOTE:** \*ONLY COMPATIBLE WITH EXPION360 GROUP 24 BATTERIES.  
\*BATTERY NOT INCLUDED.

**DISCLAIMER:** While every precaution has been taken to ensure the accuracy of the contents within this document, Expion360, Inc. assumes no responsibility for errors or omissions. Specifications and product functionality may change without notice.

# EXPION360®



## LITHIUM IRON PHOSPHATE BATTERY DATA SHEET EX-G24-80C (12.8 Vdc/81 Ah)

**PERFORMANCE:** Long Cycle Life  
High Energy Density  
High Discharge Current  
Fast Charging  
Maintenance Free  
Low Weight

**FEATURES:** Certified compliant to UL 1973 with grade A UL Recognized cells  
360-degree mounting with tie-down system accessories  
Integrated Battery Management System (BMS) for safety and reliability  
Oversized terminal connection pads  
Premium fiberglass reinforced ABS plastic case

Electrical Parameters	
Nominal Voltage	12.8 Vdc
Rated Capacity	81 Ah
Energy	1036 Wh
Resistance	<5 mΩ
Efficiency	>99 %
Cycle Life	>4000 cycles at 1C, 100 % DoD
Cell Self-Discharge	<2 % per month
Cells in Series/Parallel	4S/24P

Discharge Parameters	
Continuous Discharge Current	60 A
Max. Discharge Current	80 A
Pulse Discharge Current	100 A (1 s)
Recommended Volt. Disconnect	10.5 Vdc
BMS Discharge Cut-off Voltage	9.2 Vdc
Short Circuit Protection	200 μs to 600 μs

Compliance	
Certifications	UL 1642 For Cells, File no. MH64383
	UN3480, Class 9, UN38.3
	Certified compliant to UL 1973 by TEI Listing Services, File no. 22D01

Mechanical Parameters	
Dimensions	10.2 in x 6.8 in x 8.6 in
	(260 mm x 173 mm x 218 mm)
Weight	24 lb (10.9 kg)
Terminal Thread	M 8 x 1.25
Battery Housing	ABS Plastic Case
Housing Protection	IP66
Housing Flammability Rating	UL-94 V-0
Cell Type (Chemistry)	Cylindrical (LiFePO <sub>4</sub> )

Charge Parameters	
Charge Method	CC-CV
Recommended Charge Voltage	14.6 Vdc
Recommended Float Voltage	13.6 Vdc
Recommended Charge Current	20 A
Maximum Charge Current	40 A
BMS Charge Cut-off Voltage	14.6 Vdc

Temperature Parameters	
Discharge Temperature	-4 °F to 140 °F (-20 °C to 60 °C)
Charge Temperature	32 °F to 140 °F (0 °C to 60 °C)
Storage Temperature	32 °F to 95 °F (0 °C to 35 °C)

**NOTE:** Do not mix with lead-acid batteries when recycling. See Expion360, Inc. user's manual for proper operation.

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**STORAGE:** One discharge-recharge cycle every 6 months.

