

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-G24-60C (12.8 Vdc/61 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 | 61 Ah |
| Energy | 780 Wh |
| Resistance | <8 mΩ |
| Efficiency | >99 % |
| Cycle Life | >4000 cycles at 1C, 100 % DoD |
| Cell Self-Discharge | <2 % per month |
| Cells in Series/Parallel | 4S/18P |

| Discharge Parameters | |
|-------------------------------|------------------|
| Continuous Discharge Current | 50 A |
| Max. Discharge Current | 60 A |
| Pulse Discharge Current | 80 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 | 19 lb (8.7 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 ₄) |

| Charge Parameters | |
|----------------------------|----------|
| Charge Method | CC-CV |
| Recommended Charge Voltage | 14.6 Vdc |
| Recommended Float Voltage | 13.6 Vdc |
| Recommended Charge Current | 15 A |
| Maximum Charge Current | 30 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.



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38.3**