

Outdoor Power Cabinet with Battery Shelf -54.0VDC / 15A Output

PRODUCT FEATURES:

- **Wall or Pole Mount Type**
- **Modular design for accommodating high power applications and easy maintenance**
- **Using by Li-ion Battery (-48V/10AH)**
- **Battery Charger and Monitor**
- **Full Featured Status and Alarms**
- **Dry Contact Alarm**
- **Convection Cooling Type (no fan)**



INPUT SPECIFICATIONS:

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|------------------|---|
| VOLTAGE | 1Ø3W220VAC (±20%) |
| FREQUENCY | 47Hz ~ 63 Hz |
| INRUSH CURRENT | 30A @ 220VAC Full Load (Max Cold Start) |
| PROTECTION | Mains fuse in both lines |
| LEAKAGE | 3.5mA Max @ 220VAC per Module |
| INPUT PROTECTION | Input Undervoltage; Output Overvoltage |
| EFFICIENCY | ≥90% typical |
| HARMONICS | EN61000-3-2 Class D Compliant (≥98PF) |

OUTPUT SPECIFICATIONS:

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|-------------------------|---|
| OUTPUT VOLTAGE | -54.0VDC |
| OUTPUT CURRENT | 15Amax |
| ADJUSTMENT RANGE | -43.0VDC ~ -54.6VDC |
| LINE REGULATION | ±1.0% Max over entire input range |
| LOAD REGULATION | ±1.0% Maximum |
| RIPPLE | ≤ 250m Vp-p (10Hz~14MHz) |
| OVER-CURRENT | 105~130% |
| OVER VOLTAGE PROTECTION | -54.6VDC (±0.3VDC) Output High Voltage, High Current DC Over Voltage Shutdown Thermal Shutdown |

STATUS & CONTROL SIGNALS:

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|-------------------------|------------------------------------|
| COMMUNICATION INTERFACE | Dry Contact (2Ports) : Normal Open |
|-------------------------|------------------------------------|

GENERAL SPECIFICATIONS:

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|-----------------------|------------------------------------|
| OPERATING TEMPERATURE | -30°C to +50°C |
| STORAGE TEMPERATURE | -40°C to +85°C |
| OPERATING HUMIDITY | 10% ~ 90% (non-condensing) |
| STORAGE HUMIDITY | 5% ~ 95% (non-condensing) |
| COOLING | Natural Convection |
| RELIABILITY | 100,000 Hrs MTBF |
| SIZE (WxDxH) | 260 x 220 x 650 mm (Power Cabinet) |
| WEIGHT | 20.5KG (Includes Module, Battery) |

ELECTROMAGNETIC COMPATIBILITY:

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|-------------------------|--|
| EMISSIONS | EN55022 Level A (Conducted) |
| ELECTROSTATIC DISCHARGE | EN61000-4-2, 4KV Contact/ 8KV Air |
| RADIATED SUSCEPTIBILITY | EN61000-4-3, 26MHz-1000MHZ, 10V/m, 80%AM |
| EFT/BURSTS | EN61000-4-4, 2KV |
| SURGES | EN61000-4-5 |
| CONDUCTED IMMUNITY | EN61000-4-6, 0.15-800MHz, 10Vrms, 80%AM |
| VOLTAGE DIPS | EN61000-4-10, 95% Dip, 10ms / 30% Dip, 500ms |
| VOLTAGE INTERRUPTIONS | EN61000-4-11, 95% reduction, 5ms |

STANDARDS & APPROVAL: TBD

| | |
|--------|----------------|
| UL/cUL | IEC/UL 60950-1 |
|--------|----------------|

Li-Ion Polymer Battery -48.0VDC / 10AH Output

PRODUCT FEATURES:

- Li-ion Polymer Battery
- Managing by BMS
Protection Rectifier & Charging Battery
- Made in LG Chemical



GENERAL SPECIFICATIONS:

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|---------------------|--|
| VOLTAGE | 54.0V (54.3V Max) |
| CURRENT | 10AH |
| RECHARGE CONDITION | Method CC / CV 5A / 54.3V End of Current 500mA |
| DISCHARGE CONDITION | Method CC |
| OPERATING TEMP | -30°C to +60°C |
| STORAGE TEMP | -30°C to +60°C |
| OPERATING HUMIDITY | 10% to 90% (non-Condensing) |
| STORAGE HUMIDITY | 5% to 95% (non-Condensing) |
| SIZE (W×D×H) | 200 x 274 x 125mm |
| WEIGHT | 7.5Kg |

BMS (BATTERY MANAGEMENT SYSTEM):

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|--------------------------------------|-------------------------|
| MAX CHARGE VOLTAGE | 54.3V |
| AVERAGE DISCHARGE/ CHARGE CURRENT | 2A / 5A |
| MAX DISCHARGE/CHARGE CURRENT | Over charge / Discharge |
| INTERFACE | High Current |
| PROTECTION BY BMS | High Temperature |

