

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

# LORS-415L

## 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)
- Convection Cooling Type (no fan)



## Input Specifications:

VOLTAGE	1Ø3W220VAC(±20%)
FREQUENCY	47~63Hz
INRUSH CURRENT	30A @ 220AVC(Max Cold Start) per Module
PROTECTION	Mains fuse in both lines
LEAKAGE	3.5mA Max @ 220VAC
EFFICIENCY	≥90% Typical
HARMONICS	EN61000-3-2 Class D Compliant (≥98PF)
PROTECTION	Input Low voltage, High voltage

## Output Specifications:

Vout	-54.0VDC
Iout	15Amax
ADJUSTMENT RANGE	-43.0 VDC ~ -54.6VDC
LINE REGULATION	±1% Max over entire input range
LOAD REGULATION	±1% Maximum
RIPPLE	≤ 250mVp-p(10Hz~14MHz)
OVER CURRENT	101~130%
OVER VOLTAGE	-54.6VDC(±0.3VDC)
PROTECTION	Output High Voltage, High Current DC Over Voltage Shutdown Thermal Shutdown

## Status & Control signals:

COMMUNICATIO N INTERFACE Dry Contact(2Ports) : Normal Open

## General Specifications:

OPERATING TEMP	-30°C to +50°C
STORAGE TEMP	-40°C to +85°C
OPERATING HUMIDITY	10% to 90% (non-Condensing)
STORAGE HUMIDITY	5% to 95% (non-Condensing)
COOLING	Natural Convection
RELIABILITY	100,000 Hrs MTBF
SIZE(W×D×H)	260x220x650mm(Power Cabinet)
WEIGHT	20.5Kg(Include Module, Battery)

## Electromagnetic Compatibility:

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

## Standards & Approvals : TBD

UL/CUL 60950-1



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# UPB 4810

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:

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)	200x274x125mm
WEIGHT	7.5Kg

## BMS(Battery Management System):

MAX CHARGE VOLTAGE	54.3V
AVERAGE DISCHARGE/CHARGE CURRENT	2A / 5A
MAX DISCHARGE/CHARGE CURRENT	30A / 9A
INTERFACE	RS232
PROTECTION BY BMS	Over charge / Discharge High Current High Temperature



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