

LiFePO₄ Lithium
Battery
Rechargeable

Upower
ecoline

UE-I Series 48Li3750I x2

ENERGY STORAGE SYSTEM



Technical Specifications

Battery Type	Sealed maintenance-free lithium battery banks at 48 VDC 150 Ah composed of iron phosphate
Battery Composition	Sealed Maintenance Free Battery
Nominal Voltage	48 VDC
Ah Capacity	150 Ah made up of 2 modules in series of 75 Ah
Life Time	Useful life 16 years
Rack Unit Height	>=3U Y <7U
Module Dimensions	Length 480 mm x Depth 360 mm x Height 260 mm
Weight	62 kg
Nominal Power	7200 Wh
Resistance	(25°C, 50% SOC) ≤15 mΩ
Storage Temperature	0°C to 40°C
Communication	CAN / RS-485
Load Operating Temperature	-5°C to +55°C
Discharge Temperature	-20°C to +55°C
Useful Life	6000 life cycles (@35°C, 0.5C, 90% DOD)
Faraday Charging Efficiency	≥98%
Power Load Efficiency	≥90% (0.2C @ 25°C)
Discharge Current	100 A Max.
Rack Type	Designed for 19-inch rack installation
Voltage Ranges	42 V to 57 V
Load Voltage	52.5 VCD to 54 VCD
Current Limiting	100 A Max.
Parallel Expansion	Up to 99 150 Ah modules in parallel
Certification and Safety Standard	STANDARD UL 1973 / UN38.3 / IEC62619 / IEC52040
Lithium Recycling Permit	Lithium battery recycling certification issued by SIGBAU
Storage Time	12 months (20°C ~ 30°C)
Self Discharge	≤5.0%
Protection Level	IP20
Backup Time	4 hours @ load 35 amps
Warranty	7 years
Alarms	Overcharge / Overdischarge / Overcurrent / Overtemperature / Short Circuit

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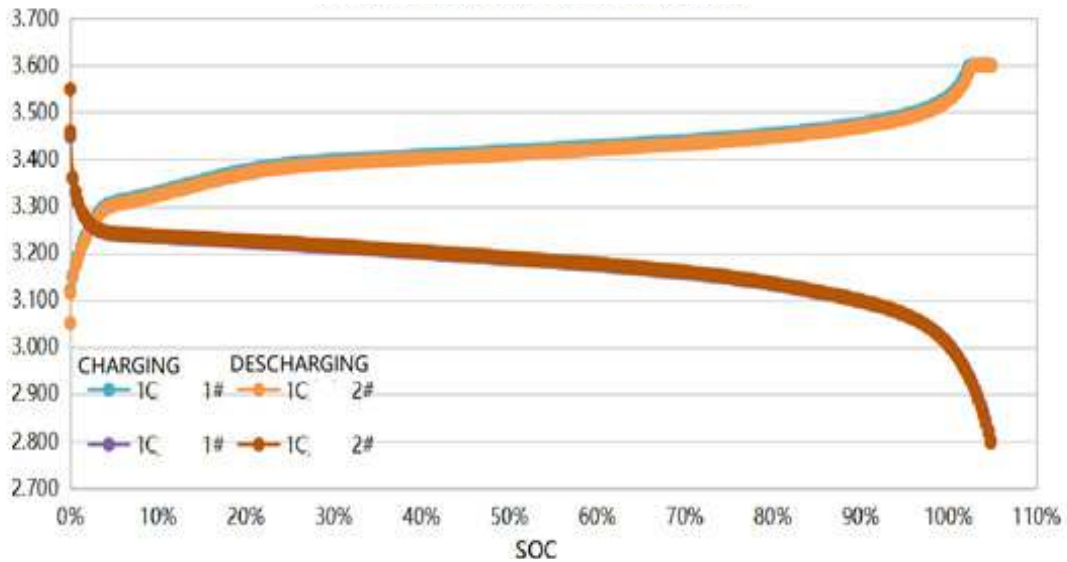


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Charge/Discharge Curves

Charge-Discharge trend diagram



Variation trend diagram of discharge capacity and voltage at different C rates

