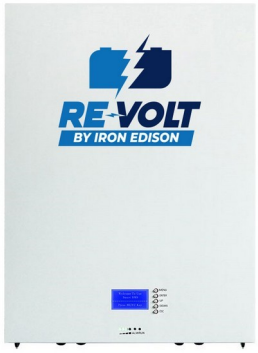
IRON EDISON Re-VOLT

Lithium Iron Phosphate (LiFePO4) Battery

TECHNICAL SPECIFICATIONS

Revised 5/2021



- Renewable Energy & Backup Power Applications
- Safest Lithium-Ion Chemistry – LiFePO4
- Maximum Compatibility with Industry Standard 48v Equipment
- Integrated Battery Management System
- Stackable for Additional / Scalable Energy Storage
- 10 Year Warranty & Lifetime Technical Support

ELECTRICAL SPECIFICATIONS	REVO-5000	REVO-1000
Nominal Voltage	51.2 Vdc	
Operating Voltage	48 - 56 Vdc	
Ah Capacity	100	200
Total Energy	5120 Wh	10240 Wh
Reommended Charge Current	25 - 50 A	50 - 100 A
Max Charge Current	100 A	100 A
Max Discharge Current	100 A	200 A
Max Batteries in Series	1	
Max Batteries in Parallel	15 (CAN) , Call to parallel 16+	

CHARGE SPECIFICATIONS		
Bulk / Absorb Voltage	56 V	
Absorb Time	6 - 15 Minutes	
Absorb End Amps	5 A	10 A
Float Voltage	53.4 V	
Recharge/Rebulk Voltage	52.6 V	
Generator Start Voltage	51 V	

PHYSICAL SPECIFICATIONS		
Dimensions (L x W x H)	26.7 x 18.9 x 8.7 in. (68 x 48 22 cm)	
Weight	130 Lbs (58.5 kg)	215 Lbs (97.5 kg)
Shipping Classification	UN 3480 , Class 9	
Certifications	UL 1642, UL 1973 (cells), IEC 62619, CE, UN38.3, RoHS	

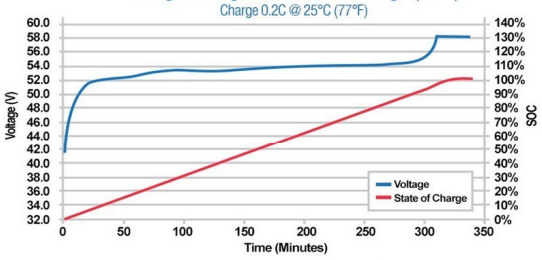
CLIMATE SPECIFICATIONS	
Operating Temperature	0°C to 45°C @60% +/- 25% Relative Humidity
Storage Temperature	-20°C to 60°C @60% +/- 25% Relative Humidity
Enclosure Rating	IP 21

Stated capacities are at the 20-hr autonomy rate

- Charging at Recommended Charge Current to Bulk Termination / Absorb Voltage (1-Stage Bulk aka CC) will charge the battery to aprox 95% SoC.
- Charging at Bulk Termination / Absorb Voltage to Absorb Termination Current (2-Stage Bulk+Absorb aka CC/CV) will charge the battery to 100% SoC.
- Equalize charging is not needed or recommended.
- Temperature compensation for charge voltage is not required.

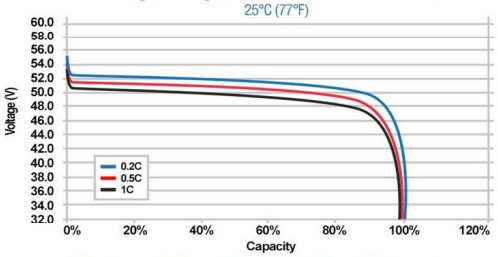
Charge Voltage and State of Charge (SOC)

Charge 0.2C @ 25°C (77°F)



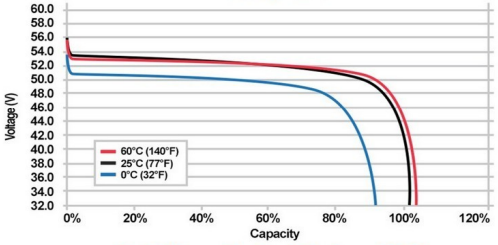
Discharge Voltage Characteristics at Various Rates

25°C (77°F)



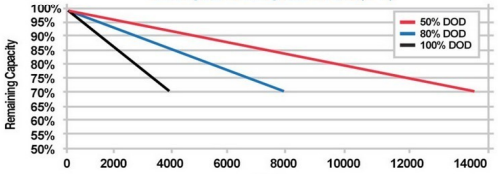
Discharge Voltage Characteristics at Various Temps

Discharge Rate 1C



Cycle Life vs. Depth of Discharge (DOD)

Discharge 0.5 C / Charge 0.5C @ 25°C (77°F)



UN38.3 CE IEC 12 Lithium

IRON EDISON

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