



# CRESLOW ENERGY SOLUTIONS

Local manufacturer of Industrial battery solutions using Lithium phosphate chemistry.  
Higher voltage and Ah solutions are available on request

DESCRIPTION	PARAMETERS	84V SOLUTIONS	120V SOLUTIONS	CHARGER
<b>Nominal</b>	Nominal Voltage (V)	89.6	128	3 Phase: 360VAC-600VAC
	Capacity (AH)	560	560	60VDC - 200VDC
	Nominal Capacity (KWH)	50	72	40 KWH
<b>Physical</b>	Weight	Battery tank customised to locomotive design & weight requirements to IP 54 rating.		320 KG
	IP Rating			IP 54
	Dimension (MM)			930 x 830 x 763 (LxWxH)
<b>Charging</b>	Cut-off Voltage (VDC)	100.00 (Charging)	144.00 (Charging)	Inverter charger capable of 40KW of constant power. CANBUS communication with battery to ensure the BMS provides optimum charge rates. The charge rates will be within the limits of the charger.
		62.80 (Discharge)	104.00 (Discharge)	
	Standard Current - Charge	560A	560A	
	Time for full charge	< 120 Min	< 180 Min	
	Standard Current - Discharge	560A	560A	
	Programmable Parameters	Above values are Max & Min, all values are programmable based on application		
<b>Other</b>	CD Connector - Charger	Anderson, with communication port		LCD Display with Voltage & Amp displayed. Menu/Run/Stop & Emergency stop
	DC Connector - Locomotive	Specific to Locomotive, with communication port		
	SOC Display	Voltage, Amp & SOC% Display		
	Cycles	6,000 Cycles (80% DOD recommended)		
<b>Temperature</b>	Operating Temperature	0~55 (c) Charge		0~45 (c) Charge
		-20~55 (c) Discharge		N/A
	Shelf Temperature	0~35 (c) 1 Year		
<b>BMS</b>	Protection	Over & Under temperature protection		Emergency stop
		Over Charge & Discharge		Over temperature protection
		Over current		Input voltage/surge (AC) protection
		Short circuit		Output short circuit protection
	Balancing	Active balancing with BMS		Output voltage (DC) protection
<b>Certification</b>	Certification Cells / BMS	UN38.3 / UL1642 / UL2580 / UL9540A / IEC 62619-CB		



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[www.energysolution.co.za](http://www.energysolution.co.za)

Customised lithium battery solutions  
for Home ESS, Forklifts, Golfcarts & E-bike



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