



Model BB8DH

270AH 12V LiFePO₄ Deep Cycle Battery

Data sheet

Electrical Specification		
Voltage	12V	
Capacity	270AH	
Operating Temperature	- 4°F to 135°F	
	(-20°C to 57.2°C)	
Efficiency	99%	
Self Discharge	2-3% per month	
Maximum Series Voltage	48V	
Cycles	3K-5K	
Built-in BMS	Internal	
Resistance	5 mΩ	
Usable DoD	100%	

Discharging Specification		
Max Discharge Current	300A	
Peak Discharge Current	500A for 30 Seconds	
Surge for Loads over 500A	.5 Seconds	
Recommended LVD	10.5V	
BMS Discharge Voltage Cut-Off	10V	
Reconnect Voltage	10V	
Short Circuit Protection	Yes	

Recognized Specification		
Certifications	UN38.3 UL/CSA-62133-2 UL-2054 IP65 - ANSI/IEC 60529-2020, CSA 60529:16 (R2021)	
Shipping Class	UN3480, Class 9	

	Drawin	Negative Te		^	
	21.3in		R	-	1
11.6in	Ф		Postive Term	Heat Er	nable
			5	.0in - 3.64in	
	-000	8.6in		10.0in	
-	19.1in			0.2in -	

Charging Spec	ification
Recommended Charge Current	.5c
Max Charge Current	135A
Absorption Voltage	14.2V-14.6V
Float Voltage	13.2V-13.8V
Equalization Voltage (if applicable)	14.4V
Absorption Time	60-90 Minutes per 270AH battery bank
BMS Charge Current Cut-Off	.5C Recommended
Recharge/Rebulk Voltage	13.3V
BMS Cell Balancing Voltage Range	14.2V-14.6V
High BMS Voltage Protection	14.7VDC
Temperature Compensation	No

Mechanical Specification		
Dimensions	21.29"L X1 1.59"W	
Difficusions	X 10.01"H	
Weight	81.4 lbs.	
Terminal Type	.25" Brass	
	3/8" hole and 3/8"	
Terminal Hole	or 5/16" hardware	
	is suggested	
Terminal Torque	9-11 Ft-lb.	
Case Material	ABS Fire Rated	
Cell Type - Electrolyte	LiFeP04	
Sealed and Water Resistant Case	Non-Submersible	
Heat enable Terminal	Female M4 Thread	

Temperature Specification		
Discharge Temperature	-4°F to 135°F	
	(-20°C to 57.2°C)	
Charge Temperature	25°F -135°F	
Storage Temperature	-10°F to 140°F	
	(-23°C to 60°C)	
BMS High Temperature Cut-Off	>135°F	
BMS Reconnect Temperature	<135°F	





Model BB8DH

270AH 12V LiFePO4 Deep Cycle Battery **Data sheet**

Performed Operation Data .5C Discharge with Temperature Variations 1C Discharge Voltage with Temperature Variations 14 OF .5C Dischg 32F .5C Dischg 72F .5C Dischg OF 1C Dischg 32F 1C Dischg 72F 1C Dischg 100F .5C Dischg 125F .5C Dischg ----100F 1C Dischg -----125F 1C Dischg Standard Charge Curve with 3 Stage Charger .5C State of Charge with Temperature Variations 14 12 13.5 ■32F .5C Charge ■ 72F .5C Charge ■ 100F .5C Charge 12 20°F 24 Hr Period 15°F 24 Hr Period 8DH Heater Draw Expected in a 24Hr Period 46Ah Consumed 54Ah Consumed 65Ah Consumed 96Ah 100

*Note: The storage temperature range is -10° F to 140° F (-23° C to 60° C). We recommend bringing the Battle Born Batteries to a 100% charge and then disconnecting them completely for storage. After six months in storage, your batteries will remain 75-80% charged.

-5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 101112131415161718192021222324252627282930

Storing batteries in subzero weather (- $15^{\circ}F$ or more) has the potential to crack the ABS plastic and more importantly could cause a faster loss of capacity, in some cases drastically more than the typical 2-4% per month loss.

3.73 4.45 11.33

30.39 22.63