

TECHNICAL DATA SHEET

31DP-800

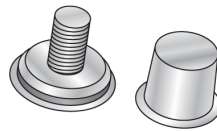
INDUSTRIAL DEEP CYCLE BATTERY

We offer a complete lineup of high-performance and low-maintenance industrial deep cycle batteries produced in standard Battery Council International group profiles for voltage, electrical capacity and physical dimension. Our innovative and proven deep cycle product design makes it the battery of choice for many tough commercial battery applications, including commercial floor care and aerial access equipment, electric vehicles, personnel carriers, material handling systems and renewable energy systems.



AVAILABLE TERMINAL STYLE:

Standard Type



PRODUCT SPECIFICATIONS:

BCI Group Size	Model Description	Terminal	Electrical Specifications					Length		Width		Height		Finished Weight	
			Volts	MCA ¹	CCA ²	RC Minutes ³	Amp Hour C/20 ⁴	in	mm	in	mm	in	mm	Lbs	Kgs
31	31DP-800	Standard	12	1000	800	180	105	13.00	330	6.75	171	9.38	238	54	24.5

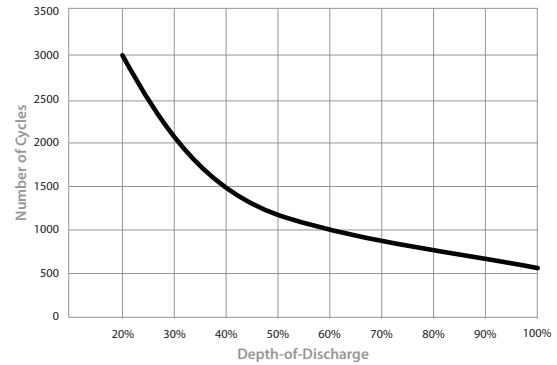
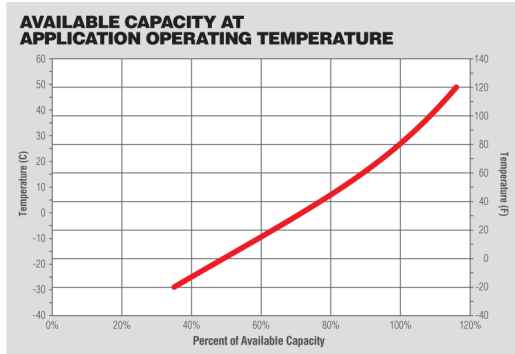
APPLICATION RECOMMENDATIONS:

State of Charge Specifications	Recommended Charging:	Operating Temperature Range	Self Discharge	Terminal Torque Specifications
Fully charged battery specific gravity (100% state-of-charge) is 1.275 Fully discharged battery specific gravity (100% depth-of-discharge) is 1.125 Fully charge battery voltage is 12.6 OCV Fully discharged battery voltage is 11.8 OCV	Always use a voltage-regulated alternator or charger with voltage limits set as described below: Alternator: 13.5 to 14.6 volts Battery Charger: 14.8 volts. Limit current input to 25% of battery RC rating. Terminate charging at cell temperatures above 115°F (46°C). Float Charge: 13.0 to 13.5 volts. Limit current input to 1.5 ampere.	-40°F to 120°F (-40°C to 49°C). Flooded lead acid battery capacities are temperature sensitive: refer to the temperature / capacity projection chart below to identify available capacity at the application operating temperature. Application Note: Always maintain a fully charged condition to ensure reliable application performance	Fully charged batteries that are stored at a temperature of 80°F (27°C) will self-discharge at a rate of 1% per week.	SAE / Automotive Terminal Style: 50 to 70 in-lbs / 6 to 8 Nm Type S Stainless Threaded Terminal Style: 100 to 120 in-lbs / 11 to 14 Nm

Application Note: Lead acid batteries contain corrosive battery electrolyte and generate highly flammable hydrogen gas. When working near batteries wear protective clothing, gloves, and safety glasses when handling batteries and electrolyte and always work in a well-ventilated area. Do not over-torque terminals. Over-torque can result in terminal damage, breakage, terminal meltdown or fire. This flooded lead acid deep cycle batteries require periodic preventative maintenance and effective charging service to ensure dependable service life.

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Effect of Battery Temperature on Battery Life

Lead acid batteries are electrochemical storage devices that store and release chemical energy upon demand in the form of electricity. By virtue of their design lead acid batteries are highly reactive to temperature – with the rate of chemical reactions that occur within the battery being affected by the operating temperature where the battery is used. Higher operating temperatures will result in faster chemical reactions within the battery – delivering improved discharge performance; conversely, cooler operating temperatures will result in slower internal chemistry. However, higher operating temperatures also result in shortened battery life as the increased rate of chemical reactions will accelerate the rate of deterioration of internal components. Typical battery life is based upon a baseline operating temperature of 80°F / 27°C. Temperature increases of 15°F / 10°C over the baseline will cause the battery's rate of internal chemical reactions to double – something that will reduce battery life due to the accelerated deterioration of internal components. Please contact the manufacturer to discuss any minimal requirements for battery life when operating batteries in temperatures greater than 80°F / 27°C.

Your local dealer :

