

POWER PROTECTORS

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> POWER PROTECTORES



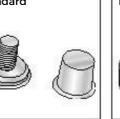


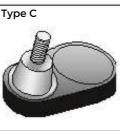
Application

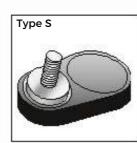
Crown Battery Manufacturing's team of research and development engineers welcome the opportunity to discuss your technical requirements during the design and specification stage. To access this technical assistance, please contact:

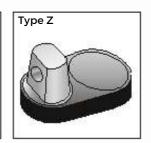
AVAILABLE TERMINAL STYLES:

Standard

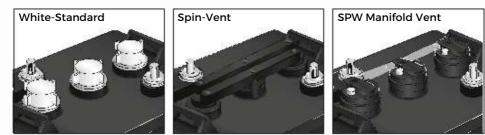








VENT CAP OPTIONS:





PHYSICAL SPECIFICATIONS

	Nominal Voltage	Length		Width		Container Height		Terminal Height		Weight		Cover & Container	Case to Cover Seal
		in	mm	in	mm	in	mm	in	mm	lbs	kgs	Material	Method
6PP-235	6V	10.25	260	7.06	179	9.88	251	10.94	278	63	28.6	Polypropylene	Heat Seal

ELECTRICAL SPECIFICATIONS

	Ampere Hour Capacity (Ah)						Discharge Capacity Minutes					KWH (kWh)	Internal Resistance	
100Ah	72 Ah	48Ah	20Ah	10Ah	5Ah	2Ah	100A	75A	50A	25A	10A	100 Hr	80°F / 27°C	
63	28.6	10.25	260	7.06	179	9.88	251	10.94	278	63	28.6	1.740	5.1mΩ	

CHARGING INSTRUCTIONS

Power Protectors specifies the following standard battery charge profile for the CR-235 deep cycle battery when used in an electric vehicle service:

Phase 1: Constant Current (I1)I1 =

highest amperage available < 60 amps

Phase 1: Constant Current (I1)I1 =

minimum amperage available > 25 amps Normal transition to Phase 2 at 2.37 Volts Per Cell. Safety transition to END OF CHARGE of dV / dt <OV / 1 hr, dt =1 hr. (NEGATIVE SLOPE). Timeout for Phase 1 = 10 hours. Phase 2: Constant Voltage (U2)U2 = 2.37 VPC

Normal Transition to Phase 3 at 12 = 5.0 amps or approximate. Safety transition to END OF CHARGE of I dl/dt I < 0.4 amp / 1 hr, dt =1 hr.

Phase 3: Constant Current (I3)I3 =

5.0 amps or approxima

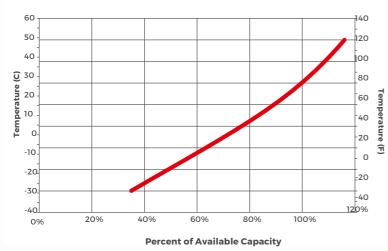
Normal transition to END OF CHARGE at 115 -118% of AH returned.

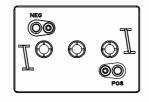
APPLICATION RECOMMENDATIONS

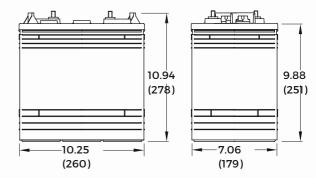
Specific Gravity	Operating Temperature Range	Self Discharge	Terminal Torque Specifications
gravity (100% state-of-charge) is 1.275 Fully discharged battery specific	-40°F to 120°F (-40°C to 49°C). Flooded lead acid battery capacities are temperature sensitive: refer to the temperature / capacity projection chart below to identify available capacity at the application operating temperature. Application Note: Maintain a state of charge greater than 60 percent when operating flooded lead acid batteries at temperatures below 32°F (0°C).	(27°C) will self-discharge at a rate of 3.5% per week.	SAE / Automotive Terminal Style: 50 to 70 in-lbs / 6 to 8 Nm Stainless Threaded Terminal (Types C, S, Z): 100 to 120 in-lbs / 11 to 14 Nm



AVAILABLE CAPACITY AT APPLICATION OPERATING TEMPERATURE







TYPICAL BATTERY CYCLE LIFE / DEPTH OF DISCHARGE

Battery	100% DOD	End Cycle	50% DOD	End Cycle	40% DOD	End Cycle	20% DOD	End Cycle
Model	Cycles	Voltage	Cycles	Voltage	Cycles	Voltage	Cycles	Voltage
6PP-235	500	1.75 VPC	1200	1.94 VPC	1500	1.97 VPC	3000	2.05 VPC



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