



PK12V2.3PC

RECHARGEABLE SEALED LEAD ACID (VRLA) BATTERY

Nominal Voltage 12 Volt

20 Hour Rate Capacity 2.3 Ah



Dimensions	Inches	mm
	Length	7.17
Width	0.91	23
Case Height	2.40	61
Terminal Height	2.40	61
[See Drawing for Tolerances]		
Weight (Approx.)	Lbs.	Kg
	1.539	0.698

Case Material A.B.S. (UL94-HB)

Terminal Pressure Contact

Maximum Short Duration Discharge Current

(5 Seconds or Less)	34.5 Amperes
(10 Seconds or Less)	23 Amperes
(60 Seconds or Less)	13.8 Amperes

Internal Resistance (Fully Charged Battery)
(Approximately) 105 mOhm

Energy Density (@ 20 Hour Rate)
1.77 Watt-Hours/Cubic Inch (108.09 Watt-Hours/Litre)

Specific Energy (@ 20 Hour Rate)
17.94 Watt-Hours / Pound (39.54 Watt-Hours / Kg)

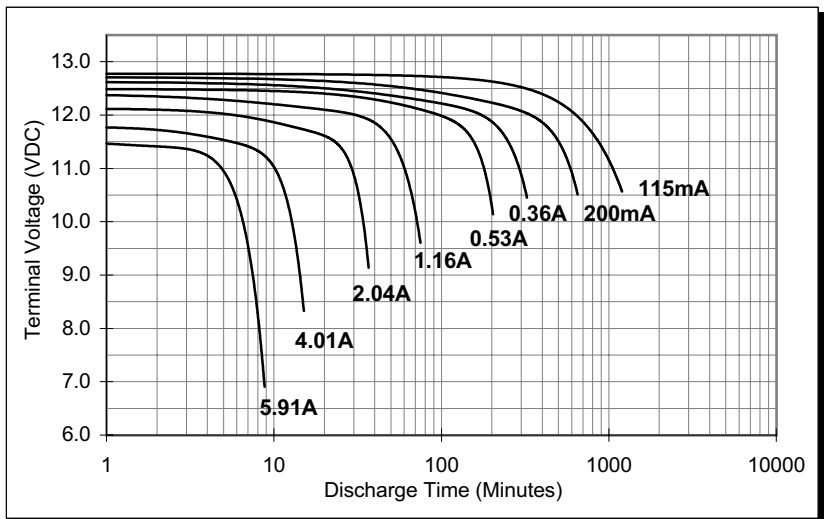
Operating Temperature Range

Discharge	14°F (-10°C) ~ 104°F (40°C)
Recharge	32°F (0°C) ~ 104°F (40°C)
Storage	-20°C (-4°F) ~ 40°C (104°F)

Self Discharge Rate
About 3% / Month @ 68~77°F (20~25°C)

Constant Current Discharge Characteristics at 77°F (25°C)

Discharge Hours	Discharge Amperes	Capacity in Ah's	Final Voltage	Discharge C-Rate
20	0.115	2.300	10.50	0.05
10	0.207	2.070	10.50	0.09
5	0.391	1.955	10.20	0.17
4	0.460	1.840	10.20	0.20
Minutes				
60	1.38	1.380	9.48	0.6
31	2.30	1.196	9.00	1.0
7	6.90	0.805	6.00	3.0



Recharge Method : Connect battery to a Current Limited, Constant Voltage Source.

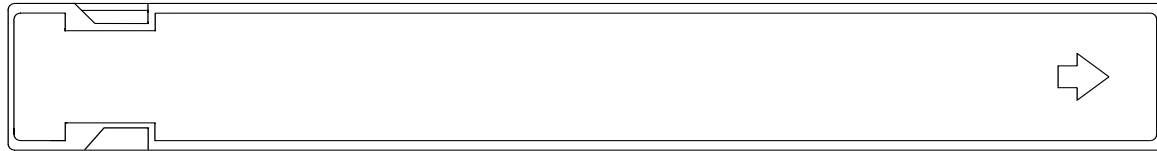
- Limit the Initial Recharge Current to 575 mA or less.
- To promote satisfactory performance in Cyclic Applications, a minimum Recharge Current of 230 mA is recommended.
- Employ Charge Voltage Temperature Compensation when Battery Temperature is less than 50°F (10°C) or greater than 86°F (30°C). Use the **Recommended** Voltage and Normalize to 77°F (25°C).
- The use of Compensation through the whole Temperature range is not generally necessary, but doing so may optimize Service Life.
- If the **Recommended** Recharge voltage is used, no Temperature Compensation is required within the range of 50~86°F (10~30°C).


Cyclic Application Recharge Voltage (77°F / 25°C)

Minimum	Recommended	Maximum	
14.40	14.55	14.70	Volts D.C.
2.40	2.425	2.45	Per Cell
Temperature Coefficient: -2.8mV/°F/Cell (- 5mV/°C/Cell)			

Standby Application Recharge Voltage (77°F / 25°C)

Minimum	Recommended	Maximum	
13.50	13.65	13.80	Volts D.C.
2.25	2.275	2.30	Per Cell
Temperature Coefficient: -1.7mV/°F/Cell (- 3mV/°C/Cell)			



Peak Energy Products PK Series			
Rechargeable Sealed Lead-Acid (VRLA) Battery			
Model:	PK12V2.3		
Voltage:	12	Capacity:	2.3 Ah (20 Hr)
Terminal:	Pressure Contact (PC)		
Dimensions:	mm (Inch)		
Drawing:	PK12V2.3T-0109CE		
Date:	2001.09.10		
© Peak Energy Products			
DO NOT SCALE DRAWING			

