



# PK12V32

**RECHARGEABLE SEALED LEAD ACID (VRLA) BATTERY**

**Nominal Voltage 12 Volt**

**20 Hour Rate Capacity 32 Ah**



Dimensions	Inches	mm
Length	7.72	196
Width	5.12	130
Case Height	6.10	155
Terminal Height	7.01	178

[See Drawing for Tolerances]

Weight (Approx.)	Lbs.	Kg
	24.08	10.92

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

**Terminal** Bolt and Nut Type (M6)

<b>Maximum Short Duration Discharge Current</b>	
(5 Seconds or Less)	480 Amperes
(10 Seconds or Less)	320 Amperes
(60 Seconds or Less)	192 Amperes

**Internal Resistance (Fully Charged Battery)**  
(Approximately) 9.4 mOhm

**Energy Density (@ 20 Hour Rate)**  
1.59 Watt-Hours/Cubic Inch (97.23 Watt-Hours/Litre)

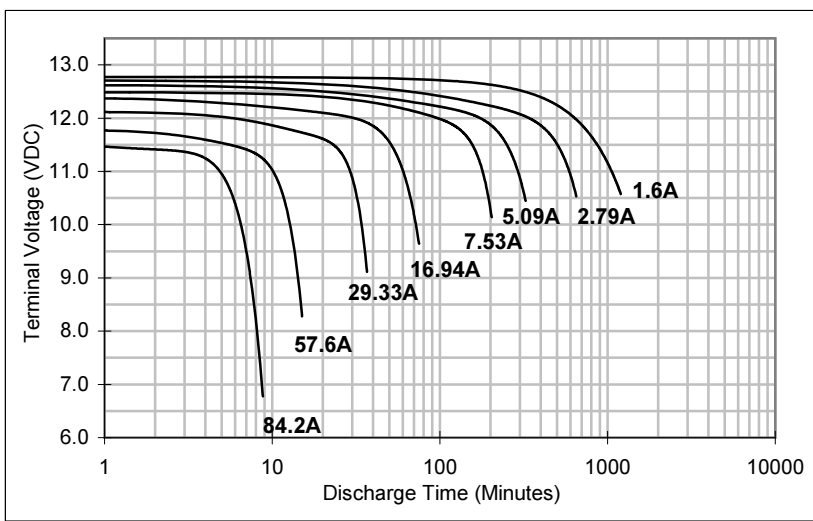
**Specific Energy (@ 20 Hour Rate)**  
15.95 Watt-Hours / Pound (35.15 Watt-Hours / Kg)

<b>Operating Temperature Range</b>	
<b>Discharge</b>	-4°F (-20°C) ~ 122°F (50°C)
<b>Recharge</b>	32°F (0°C) ~ 104°F (40°C)
<b>Storage</b>	-4°F (-20°C) ~ 104°F (40°C)

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

### Constant Current Discharge Characteristics at 73.4°F (23°C)

Discharge Time	Discharge Amperes	Capacity in Ah's	Final Voltage	Discharge C-Rate
20.0 Hrs	1.60	32.00	10.50	0.05
9.2 Hrs	3.20	29.60	10.50	0.10
5.0 Hrs	5.44	27.12	10.29	0.17
4.1 Hrs	6.40	26.06	10.20	0.20
2.1 Hrs	11.2	23.84	9.94	0.35
64.0 Mins	19.2	20.48	9.54	0.6
32.5 Mins	32.0	17.31	9.00	1.0
7.2 Mins	96.0	11.49	6.00	3.0



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

- Limit the initial recharge current to 8 Amperes or less.
- To promote satisfactory performance in Cyclic applications, a minimum recharge current of 3.2 Amperes 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)

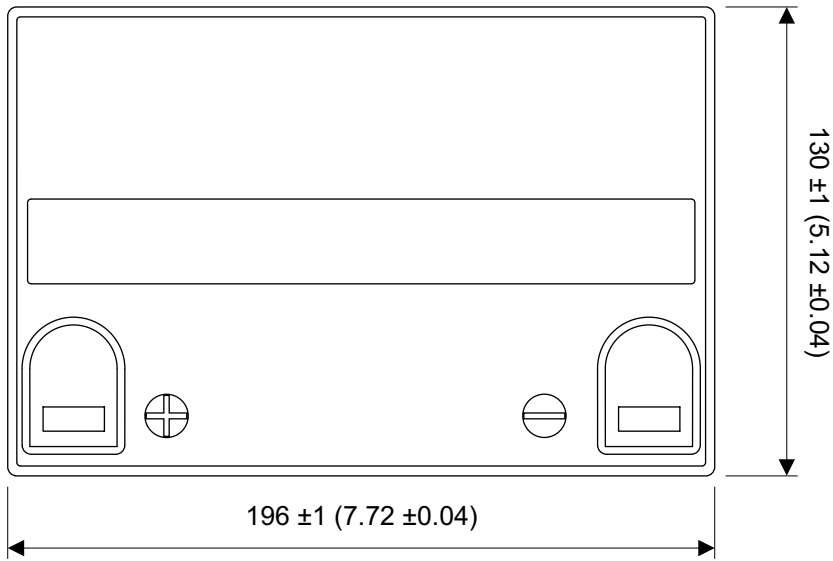
Minimum	Recommended	Maximum	
14.40	14.55	14.70	Volts D.C.
2.40	2.425	2.45	Per Cell


**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:	<b>PK12V32</b>		
Voltage:	<b>12</b>	Capacity:	<b>32 Ah (20 Hr)</b>
Terminal:	Bolt and Nut Type (M6)		
Dimensions:	mm (Inch)		
Drawing:	PK12V32T-0111CE		
Date:	2001.11.27		
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<b>DO NOT SCALE DRAWING</b>			

