



# PK12V0.7W2

RECHARGEABLE SEALED LEAD ACID (VRLA) BATTERY

Nominal Voltage **12 Volt**

20 Hour Rate Capacity **0.7 Ah**



Dimensions	Inches	mm
Length	3.78	96
Width	0.98	25
Case Height	2.42	62
Terminal Height	2.42	62

[See Drawing for Tolerances]

Weight (Approx.)	Lbs.	Kg
	0.88	0.40

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

**Terminal** 20 AWG Wire Lead with Amp #460318 Plug

<b>Maximum Short Duration Discharge Current</b>	
(5 Seconds or Less)	10.5 Amperes
(10 Seconds or Less)	7 Amperes
(60 Seconds or Less)	4.2 Amperes

**Internal Resistance** (Fully Charged Battery)  
(Approximately) 125 mOhm

**Energy Density (@ 20 Hour Rate)**  
0.93 Watt-Hours/Cubic Inch (56.91 Watt-Hours/Litre)

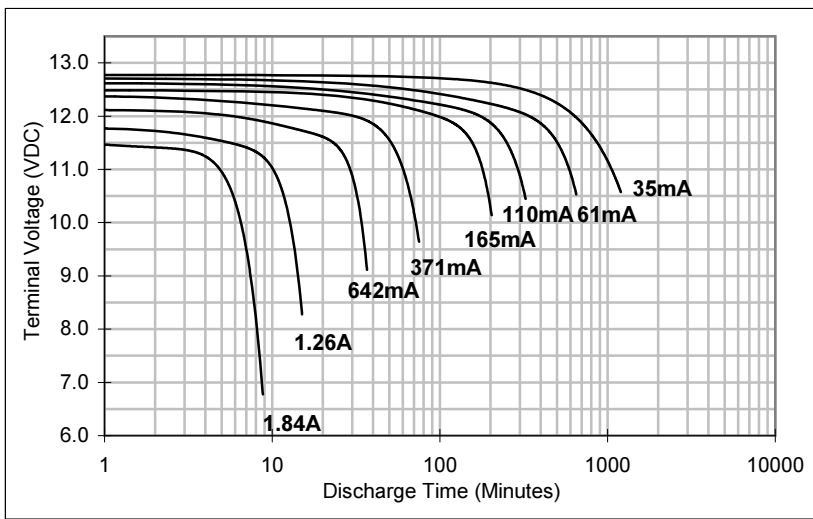
**Specific Energy (@ 20 Hour Rate)**  
9.58 Watt-Hours / Pound (21.13 Watt-Hours / Kg)

<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	0.035	0.700	10.50	0.05
9.2 Hrs	0.070	0.647	10.50	0.10
5.0 Hrs	0.119	0.593	10.29	0.17
4.1 Hrs	0.140	0.570	10.20	0.20
2.1 Hrs	0.245	0.521	9.94	0.35
64.0 Mins	0.42	0.45	9.54	0.6
32.5 Mins	0.70	0.38	9.00	1.0
7.2 Mins	2.10	0.25	6.00	3.0



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

- Limit the initial recharge current to 175 mA or less.
- To promote satisfactory performance in Cyclic applications, a minimum recharge current of 70 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)

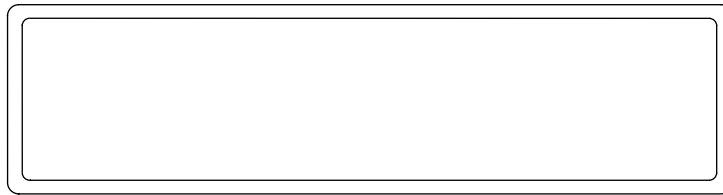
Minimum	Recommended	Maximum	
14.40	14.55	14.70	Volts D.C.
2.40	2.425	2.45	Per Cell


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:	<b>PK12V0.7 (W2)</b>		
Voltage:	<b>12</b>	Capacity:	<b>0.7 Ah (20 Hr)</b>
Terminal:	Wire & Amp Plug # 1-480318-0 (W2)		
Dimensions:	mm (Inch)		
Drawing:	PK12V0.7W2T-0203CE		
Date:	2002.03.21		
© Peak Energy Products			
<b>DO NOT SCALE DRAWING</b>			

