PK6V0.5W2

RECHARGEABLE SEALED LEAD ACID (VRLA) BATTERY

ENERGY PRODUCTS

Nominal Voltage	***6 Volt***
20 Hour Rate Capacity	***0.5 Ah***

Dimensions	**Inches**	**mm**
Length	2.24	57
Width	0.57	15
Case Height	1.97	50
Terminal Height	1.97	50

[See Drawing for Tolerances]

	Lbs.	**Kg**
Weight *(Approx.)*	0.23	0.10

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

Terminal 22 AWG Wire Lead with Molex #5264-02 Plug

Maximum Short Duration Discharge Current

(5 Seconds or Less)	7.5 Amperes
(10 Seconds or Less)	5 Amperes
(60 Seconds or Less)	3 Amperes

Internal Resistance *(Fully Charged Battery)* *(Approximately)* 138 mOhm

Energy Density (@ 20 Hour Rate)
1.19 Watt-Hours/Cubic Inch (72.6 Watt-Hours/Litre)

Specific Energy (@ 20 Hour Rate)
13.08 Watt-Hours / Pound (28.85 Watt-Hours / Kg)

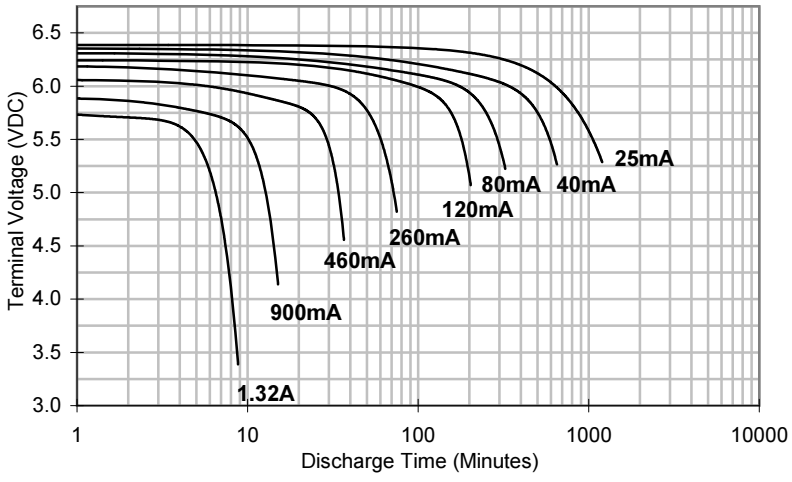
Operating Temperature Range

Discharge	-4°F (-20°C) ~ 122°F (50°C)
Recharge	32°F (0°C) ~ 104°F (40°C)
Storage	-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 (23ºC)

Discharge Time	**Discharge Amperes**	**Capacity in Ah's**	**Final Voltage**	**Discharge C-Rate**
20.0 Hrs	0.025	0.500	5.25	0.05
9.2 Hrs	0.050	0.462	5.25	0.10
5.0 Hrs	0.085	0.424	5.15	0.17
4.1 Hrs	0.100	0.407	5.10	0.20
2.1 Hrs	0.175	0.372	4.97	0.35
64.0 Mins	0.30	0.32	4.77	0.6
32.5 Mins	0.50	0.27	4.50	1.0
7.2 Mins	1.50	0.18	3.00	3.0



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

- Limit the initial recharge current to 125 mA or less.
- To promote satisfactory performance in Cyclic applications, a minimum recharge current of 50 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 / 25ºC)

Minimum	**Recommended**	Maximum	
7.20	7.28	7.35	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 / 25ºC)

Minimum	**Recommended**	Maximum	
6.75	6.83	6.90	Volts D.C.
2.25	2.275	2.30	Per Cell

Temperature Coefficient: -1.7mV/°F/Cell (- 3mV/°C/Cell)

Recognized by UL File No. MH20545

Peak Energy Products PK Series Rechargeable Sealed Lead-Acid (VRLA) Battery			
Model:	**PK6V0.5 (W2)**		
Voltage:	**6**	Capacity:	**0.5 Ah (20 Hr)**
Terminal:	Wire & Molex Plug 5264-02 (W2)		
Dimensions:	mm (Inch)		
Drawing:	PK6V0.5W2T-0203CE		
Date:	2002.03.21		
DO NOT SCALE DRAWING