

# HIGH-RATE SERIES

**POWER**  
Power for a World of Applications

## PRC-12120S & TC-12120S

**VALVE REGULATED  
LEAD ACID BATTERY (V.R.L.A.)**

**ABSORBED GLASS MAT  
TECHNOLOGY (A.G.M.)**

**10 YEAR DESIGN FOR UPS &  
STANDBY APPLICATIONS**



### FEATURES & BENEFITS

- Gas recombination greater than 99%.
- Operates at a low internal pressure.
- Never needs watering, minimal maintenance.
- 99.7% pure lead calcium grids.
- Shock absorbent thick wall construction.
- Cold forged non-porous terminal bushings, eliminate post leakage.
- Thermally welded case to cover bond, eliminates both acid and electrical leaks.
- Over-sized, through the partition inter-cell welds provide low resistance connections, with minimal power loss.
- Each cell has a low pressure safety release venting system, recognized per U.L. 924.
- Measured high vacuum acid fill, reduces electrical variability between cells.
- 100% recyclable materials.

### SPECIFICATIONS

Cells per unit	6
Nominal voltage	12
Terminal type	1/4" Stud
Maximum discharge current	700 amps
Short circuit current	4182 amps
Impedance @ 77°F 25°C	3.30 milliohms
Weight lbs / kgs	78.5 / 35.7
Electrolyte (S.G.)	1.300
Capacity @ 77°F (25°C) to 1.75 V.P.C.	109.6 AH (20 hrs) 96.0 AH (8 hrs)
Ideal operating temperature range	+68°F (+20°C) to +77°F (+25°C)
Extended operating temperature range	Discharge: - 40°F (-40°C) to +140°F (+60°C) Charge: - 40°F (-40°C) to +122°F (+50°C)
Float Voltage	13.5 to 13.8 @ 77°F (25°C)
Maximum charging current	C/4 amperes at 100% discharge Unlimited at partial discharge.
AC ripple from charging source	1.5% peak to peak of float charge voltage
Storage	6 months at 77°F (25°C)

### NO TRANSPORT RESTRICTIONS

- Surface transport. Classified as non-hazardous material as relates to DOT-CFR Title 49 part 171-189.
- Maritime transport. Classified as non-hazardous material as per IMDG amendment 27.
- Air transport. Complies with IATA / ICAO, special provision A67.

### OPTIONS

- The TC-12120S battery has a flame retardant polypropylene case and cover compliant with UL 1778; with an oxygen index greater than 28%.
- Terminal covers and custom inter-connecting battery cables.

### DISCHARGE SPECIFICATIONS

CONSTANT POWER RATINGS, WATTS PER BATTERY @ 77°F (25°C) IN MINUTES										
Final V.P.C.	5	10	15	20	30	40	50	60	90	100
1.60	4676	3131	2426	2028	1505	1190	989	850	595	548
1.67	4518	3072	2400	1980	1464	1182	984	846	594	547
1.70	4449	3049	2384	1969	1459	1179	982	845	590	543
1.75	4218	2870	2298	1931	1445	1167	920	794	551	542

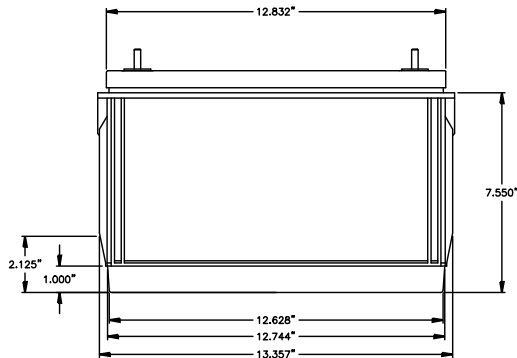
# HIGH-RATE SERIES

**POWER**   
Power for a World of Applications

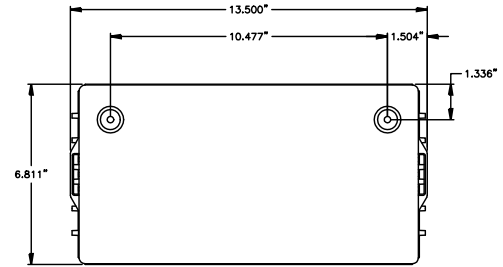
## PRC-12120S & TC-12120S

POWER BATTERY offers an extensive line of pre-wired and fused battery cabinets complete with UL and CUL approval. Custom DC voltages, breakers and chargers are also available.

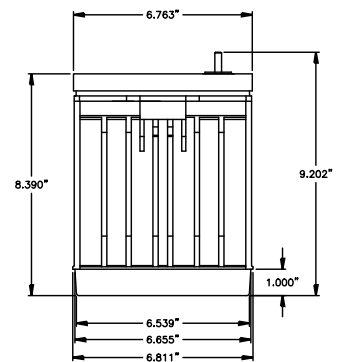
**FRONT VIEW**



**TOP VIEW**



**SIDE VIEW**



BATTERY CABINET SYSTEMS (PRE-WIRED WITH PRC/TC-12120S BATTERIES)					
Battery cabinet model	Maximum # of batteries	Dimensions			Weight lbs/kg
		inches / millimeters			
		W	D	H	
KS7	8	16.0/406	34.5/876	37.25/946	812/369
CR1	12	24.0/610	32.5/826	43/1092	1254/570
CR3	20	40/1016	32.5/827	43/1092	1982/900.9
CR6	30	40/1016	32.5/828	60/1524	2926/1330
CR4	40	40/1016	32.5/829	77/1956	3870/1759
CR5	48	48/1219	32.5/830	77/1957	4423/2006
CR7	40	36/914	29.5/749	78.7/1999	3705/1681

## DISCHARGE SPECIFICATIONS

### CONSTANT POWER RATINGS, WATTS PER BATTERY @ 77°F (25°C) IN MINUTES

Final V.P.C.	5	10	15	20	30	40	50	60	90	100
1.60	4676	3131	2426	2028	1505	1190	989	850	595	548
1.67	4518	3072	2400	1980	1464	1182	984	846	594	547
1.70	4449	3049	2384	1969	1459	1179	982	845	590	543
1.75	4218	2870	2298	1931	1445	1167	920	794	551	54

### CONSTANT POWER RATINGS, WATTS PER CELL @ 77°F (25°C) IN MINUTES

Final V.P.C.	5	10	15	20	30	40	50	60	90	100
1.60	779	522	404	338	251	198	165	142	99	91
1.67	753	512	400	330	244	197	164	141	99	91
1.70	742	508	397	328	243	197	164	141	98	91
1.75	703	478	383	322	241	195	153	132	92	90

### CONSTANT CURRENT RATINGS, AMPERES @ 77°F (25°C) IN HOURS

Final V.P.C.	1	2	3	4	5	6	8	10	12	24	60	72
1.75	70.62	39.5	28.2	22.1	18.2	15.5	12	9.8	8.37	4.51	1.99	1.71
1.80	69.56	38.5	27.9	21.7	17.9	15.3	11.9	9.75	8.29	4.46	1.91	1.63
1.85	66.81	37.5	26.9	21	17.3	14.8	11.5	9.42	8.01	4.3	1.78	1.48
1.90	61.41	35	25.3	19.8	16.3	13.9	10.7	8.7	7.33	3.97	1.69	1.41

**U.S.A.**  
Power Battery Company, Inc.  
25 McLean Blvd.  
Paterson, N.J. 07514-1507  
Phone: (973) 523-8630  
Fax: (973) 523-3023  
E-mail: sales@powbat.com  
Website: www.powerbattery.com

**CANADA**  
Power Battery (Iberville) Ltd.  
770 Thomas Ave.  
Saint-Jean-sur-Richelieu, Québec, J2X 5E7  
Phone: (450) 346-3273  
Fax: (450) 346-8003  
E-mail: sales@powbat.com  
Website: www.powerbattery.com

**UK**  
Power Batteries Ltd.  
Premier Way, Abbey Park Industrial Estate  
Romsey, Hampshire, SO51 9AQ  
Phone: +44 (0)1794 835900  
Fax: +44 (0)1794 835910  
E-mail: sales@powbat.co.uk  
Website: www.powbat.co.uk