

HIGH-RATE SERIES

TC-12160C

VAIVE REGULATED
LEAD ACID BATTERY (V.R.L.A.)

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

10 YEAR DESIGN FOR UPS &
STANDBY APPLICATIONS



FEATURES & BENEFITS

- Ten year design life in float service.
- Available with High Temperature feature, which permits normal life at temperatures up to 90°F (32°C). Add "HT" to part #: TC-12160C-HT.
- Flame retardant case compliant with UL1778 requirements.
- Absorbed glass mat technology (AGM) with gas recombination greater than 99%.
- Operates at a low internal pressure.
- Never needs watering; minimal maintenance.
- Shock absorbent thick wall polypropylene plastic, case and cover.
- Advanced lead tin calcium alloy, reduces grid corrosion and promotes long battery life.
- Pressure cast non-porous terminal bushings, eliminates post leakage.
- Thermally welded case to cover bond; eliminates both acid and electrical leaks.
- Over-sized, through the partition inter-cell welds for minimal power loss.
- Measured high vacuum acid fill, reduces electrical variability between cells.
- 100% recyclable materials.

NO TRANSPORT RESTRICTIONS

- Surface transport. Classified as non-hazardous material as relates to DOTCFR 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.

SPECIFICATIONS

Cells / Volts	6 cells / 12 volts
Terminal type	Threaded copper insert, 1/4"
Maximum discharge current	805 amps
Short circuit current	5454 amps
Impedance @ 25°C/77°F	2.1 milliohms
Electrolyte (S.G.)	1.300
Electrolyte content	5.52 lit. / 1.46 gal. / 15.82 lbs.
Capacity @ 25°C/77°F to 1.75 V.P.C.	149 AH @ 20 hours 140 AH @ 8 hrs
Operating temperature range:	-40°C/-40°F to 60°C/140°F
Charging voltage / current:	2.27 to 2.30 volts per cell, constant voltage at a maximum current of C/4 amps.
Temperature compensation: Apply for temperature range of 0°C/32°F to 40°C/104°F.	Subtract 3mV/°C/cell or 1.7 mV/ °F/cell, above 25°C/77°F. Add 3 mV/°C/cell or 1.7 mV/ °F/cell, below 25°C/77°F.
Storage time from a fully charged condition:	6 months at 25°C/77°F. For each 9°C/15°F rise, reduce the storage time by half.
AC ripple from charging source	1.5% peak to peak of float
Overall dimensions (inches, mm)	10.87" H x 13.50" L x 6.76" W (276 H x 344 L x 172 W)
Weight lbs/kg	110 / 48.9

OPTIONS

- Custom inter-connecting battery cables.
- Hardware kit: HMP-10
- Terminal covers: TC7-L & TC7-R
- Handle.

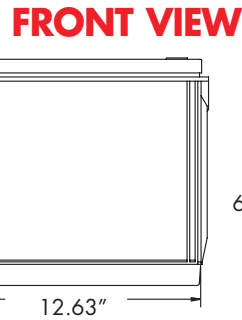
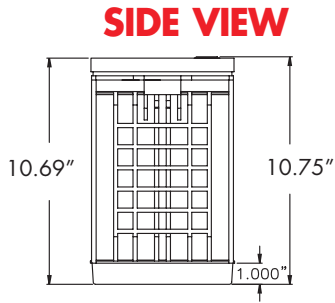
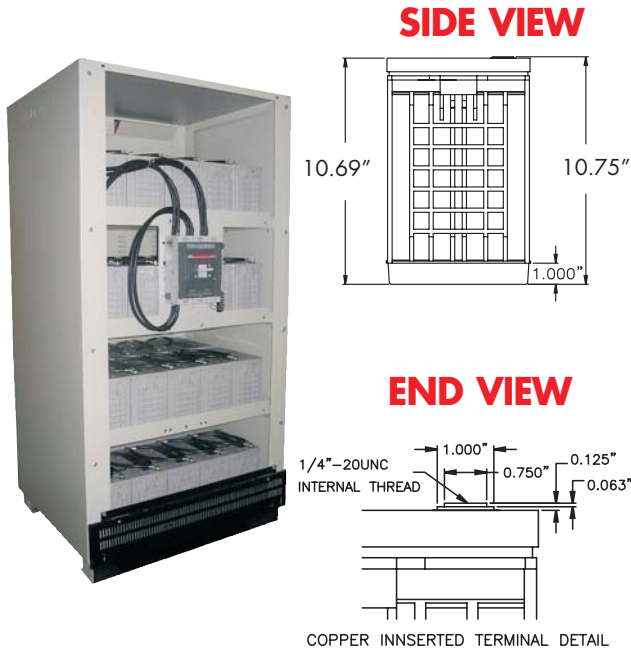
DISCHARGE SPECIFICATIONS

Model #	WATTS PER BATTERY TO 1.67 V.P.C. @ 77°F (25°C) IN MINUTES									
	5	10	15	20	30	40	45	50	60	90
TC-12150	5480	3900	3030	2520	1830	1480	1350	1260	1128	771
TC-12160	5568	4201	3360	2754	2054	1680	1517	1420	1192	871

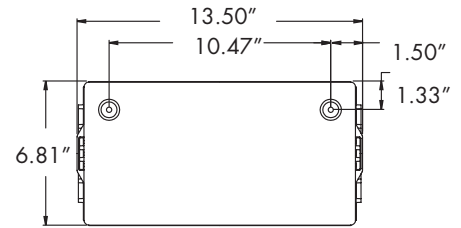
HIGH-RATE SERIES

TC-12160C

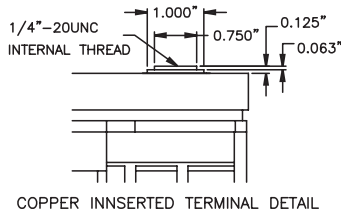
POWER BATTERY offers an extensive line of pre-wired and fused battery cabinets complete with UL and CUL approval. Custom DC voltages, breakers and chargers are also available.



TOP VIEW



END VIEW



BATTERY CABINET SYSTEMS

(PRE-WIRED WITH PRC/TC-12160C BATTERIES)

Battery cabinet model	Maximum # of batteries	Dimensions			Weight lbs/kg
		inches / millimeters			
		W	D	H	
KS6	4	16.0/406	34.5/876	17.75/451	499/226
KS7	8	16.0/406	34.5/876	37.25/946	998/453
CR1	12	24.0/610	32.5/826	43.0/1092	1532/695
CR3	20	40.0/1016	32.5/826	43.0/1092	2446/1110
CR6	30	40.0/1016	32.5/826	60.0/1524	3622/1643
CR4	40	40.0/1016	32.5/826	77.0/1956	4798/2176
CR5	48	48.0/1219	32.5/826	77.0/1956	5703/2592

DISCHARGE SPECIFICATIONS

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

Final V.P.C.	5	10	15	20	30	40	45	50	60	90
1.60	5856	4305	3375	2794	2092	1699	1536	1478	1217	892
1.67	5568	4201	3360	2754	2054	1680	1517	1420	1192	871
1.70	5508	3987	3215	2716	2016	1651	1488	1353	1177	865
1.75	5271	3783	3113	2629	1987	1584	1420	1305	1152	896

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

Final V.P.C.	5	10	15	20	30	40	45	50	60	90
1.60	976	717	562	466	349	283	256	246	202	149
1.67	928	700	560	459	342	280	253	237	198	145
1.70	918	665	535	453	336	275	248	226	196	144
1.75	878	630	519	438	331	264	237	217	192	149

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

Final V.P.C.	1	2	3	4	5	6	8	10	12	24
1.75	98.00	55.44	40.56	31.36	25.42	21.63	17.65	14.78	12.47	6.38
1.80	95.00	54.06	38.24	29.81	24.64	20.92	16.64	13.66	11.58	6.20
1.85	90.00	50.34	36.36	28.27	23.39	20.06	16.10	13.06	11.01	5.91
1.90	86.00	46.90	33.98	26.71	21.96	18.76	14.68	11.97	10.06	5.42

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