

# HIGH-RATE SERIES

## PM12-33 / PM12-33FC

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

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

DESIGNED FOR UPS, STANDBY,  
MOBILITY & GENERAL PURPOSE



### FEATURES & BENEFITS

- Advanced Absorbed Glass Mat (AGM) Technology.
- Valve regulated lead acid battery (VRLA).
- UL94 HB rated and V2 rated for FC version. V2 is 28% oxygen index case and cover.
- 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: PM12-33	"L" Type
PM12-33FC	Threaded Copper Insert, M8
Maximum discharge current	245 amps
Short circuit current	1883 amps
Impedance @ 25°C/77°F	9 milliohms
Electrolyte (S.G.)	1.300
Capacity @ 25°C/77°F to 1.75 V.P.C.	35.7 AH @ 20 hours 33 AH @ 10 hrs
Operating temperature range:	-40°C/-40°F to 60°C/140°F
Charging voltage / current:	2.25 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 [LxWxH] (inches, mm)	7.72 x 5.12 x 7.05 (196 x 130 x 179)
Weight lbs/kg	25.3 / 11.5

### OPTIONS

- Terminal covers and custom inter-connecting battery cables.
- Racks. Cabinets & Chargers.

**U.S.A.**  
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### DISCHARGE SPECIFICATIONS

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

Final V.P.C.	5	10	15	30	60	120	180	240	300
1.67	1273	930	645	400	222	130	97	76	70
1.70	1194	901	623	399	216	128	96	75	62
1.75	1122	828	588	373	211	127	93	74	60.8
1.80	1100	803	576	366	206	123	91	72	60.1

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

Final V.P.C.	5	10	15	30	60	120	180	240	300
1.70	108	81	56	36	18.6	11	8.3	6.4	5.3
1.75	103	76	54	34.3	18.1	10.7	8	6.3	5.2
1.80	100	73	50	33.3	17.4	10.5	7.9	6.2	5.1
1.85	96	69	46	32.6	16.8	10.2	7.6	6	5

**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.



**KS6 cabinet model**

#### Battery Cabinet Systems (wired with PM12-33 batteries)

Battery cabinet model	Maximum # of batteries	Dimensions			
		inches / millimeters			Weight lbs / kgs
		W	D	H	
KS3	4	8.75 / 7.75	24.0 / 222	197 / 610	129 / 58.6
KS4	4	13.0 / 11.5	19.0 / 330	292 / 482	141 / 64.1
KS5	6	15.75 / 15.0	25.0 / 400	381 / 635	211 / 95.9
KS6	8	17.75 / 16.0	34.5 / 451	406 / 876	297 / 135
KS7	16	37.25 / 16.0	34.5 / 946	406 / 876	593 / 269.5
CR1	24	43.0 / 24.0	32.5 / 1092	610 / 826	925 / 420.4
CR3	36	43.0 / 40.0	32.5 / 1092	1016 / 826	1323 / 601.2

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