

# POWER BATTERY PM SERIES BATTERIES



**Maintenance-Free Rechargeable Long Design Life Seal Lead Acid Batteries**

## Features

- Maintenance Free
- Leak Proof / Spill Proof
- Gas Recombination
- Absorbed Electrolyte
- Float / Cycle Use
- Low Self Discharge Rate
- Safety Valve
- Lead Calcium Alloy
- Useable In Any Position
- Rugged Design

## Application

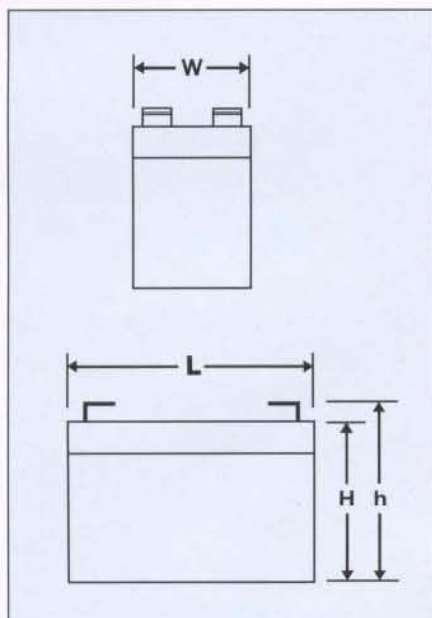
- UPS System DC & AC
- Telecommunication PABX etc.
- Emergency Lighting
- Fuse & Security Alarm System
- Portable VTR / TV
- Power Tool
- Computer
- Cellular Radio / Microwave
- Photovoltaic
- Electronic Torch
- Window Washer

## DISCHARGE TABLES

Battery Model	Volts Per Cell	Discharge Rate Amps Minutes											
		5	10	15	20	25	30	45	60	90	120	180	240
PM 6 - 1.3	1.75	4.87	3.01	2.13	1.69	1.43	1.24	0.92	0.74	0.52	0.41	0.33	0.26
PM 6 - 4.5	1.75	16.85	10.42	7.38	5.85	4.95	4.3	3.18	2.57	1.8	1.41	1.13	0.9
PM 6 - 10	1.75	37.44	23.16	16.4	12.99	10.99	9.56	7.07	5.72	4	3.13	2.51	2
PM 6 - 12	1.75	44.93	27.79	19.68	15.59	13.49	11.47	8.48	6.86	4.8	3.75	3.02	2.4
PM 12 - 1.3	1.75	4.87	3.01	2.13	1.69	1.43	1.24	0.92	0.74	0.52	0.41	0.33	0.26
PM 12 - 2.2	1.75	8.24	5.1	3.61	2.86	2.42	2.1	1.55	1.26	0.88	0.69	0.55	0.44
PM 12 - 3.3	1.75	12.36	7.61	5.41	4.29	3.63	3.15	2.33	1.89	1.32	1.02	0.82	0.66
PM 12 - 5	1.75	18.72	11.58	8.2	6.5	5.5	4.78	3.53	2.86	2	1.56	1.26	1
PM 12 - 7.2	1.75	26.96	16.68	11.81	9.35	7.91	6.88	5.09	4.12	2.88	2.25	1.81	1.44
PM 12 - 12	1.75	44.93	27.79	19.68	15.59	13.91	11.47	8.48	6.86	4.8	3.75	3.02	2.4
PM 12 - 18	1.75	67.39	41.69	29.52	23.38	19.79	17.21	12.72	10.3	7.2	5.63	4.52	3.6
PM 12 - 26	1.75	74.3	54.6	48.88	40.95	30.7	29.74	21.66	17.1	12.28	9.88	6.67	5.2
PM 12 - 44	1.75	132.05	95.95	75.53	62.7	53.2	46.65	34.49	27.55	19.95	15.87	11.4	8.12
PM 12 - 65	1.75	170	135.4	104.2	98.85	78.6	68.9	50	40.7	27.5	21.5	15.5	12.2
PM 12 - 70	1.75	190	140	112	105	84	70	52.5	42	31.5	24.5	17.5	12.6
PM 12 - 80	1.75	224	160	128	120	96	80	60	48	36	28	20	14.4
PM 12 - 100	1.75	280	200	160	150	120	100	75	60	45	35	25	18
Average to 1.75	1.75	1.77	1.78	1.8	1.81	1.82	1.83	1.85	1.87	1.89	1.9	1.92	1.98

Battery Model	Volts Per Cell	Discharge Rate Watts Minutes											
		5	10	15	20	25	30	45	60	90	120	180	240
PM 6 - 1.3	1.75	8.62	5.36	3.83	3.06	2.6	2.27	1.7	1.38	0.98	0.78	0.63	0.51
PM 6 - 4.5	1.75	29.82	18.54	13.28	10.59	9.01	7.87	5.88	4.81	3.4	2.68	2.17	1.78
PM 6 - 10	1.75	66.27	41.22	29.52	23.51	20	17.49	13.08	10.7	7.56	5.95	4.82	3.96
PM 6 - 12	1.75	79.53	49.47	35.42	28.22	24.01	20.99	15.69	12.83	9.07	7.13	6.8	4.75
PM 12 - 1.3	1.75	8.62	5.36	3.83	3.06	2.6	2.27	1.7	1.38	0.98	0.78	0.63	0.51
PM 12 - 2.2	1.75	14.58	9.08	6.5	5.18	4.4	3.84	2.87	2.35	1.66	1.31	1.06	0.87
PM 12 - 3.3	1.75	21.88	13.6	9.74	7.76	6.61	5.78	4.31	3.53	2.49	1.96	1.59	1.31
PM 12 - 5	1.75	33.13	20.61	14.76	11.77	10.01	8.75	6.53	5.35	3.78	2.96	2.42	1.98
PM 12 - 7.2	1.75	47.72	29.69	21.26	16.92	14.4	12.59	9.42	7.7	5.44	4.28	3.48	2.86
PM 12 - 12	1.75	79.53	49.47	35.42	28.22	24.01	20.99	15.69	12.83	9.07	7.13	5.8	4.75
PM 12 - 18	1.75	119.28	74.21	53.14	42.32	36.02	31.49	23.53	19.26	13.61	10.7	8.68	7.13
PM 12 - 26	1.75	133.6	95.84	88.28	72.47	53.6	54.42	40.07	31.98	22.92	18.77	11.93	9.34
PM 12 - 44	1.75	233.73	169.83	133.68	110.98	96.82	85.36	63.6	51.52	37.31	30.14	21.89	14.59
PM 12 - 65	1.75	297	237	182	173	137.6	138	87.5	71.2	48.1	37.6	27.1	21.3
PM 12 - 70	1.75	332.5	245	196	183.8	147	122.5	91.8	73.8	55.1	42.9	30.6	22.1
PM 12 - 80	1.75	392	280	224	210	168	140	105	84	63	49	35	25.2
PM 12 - 100	1.75	490	350	280	262.5	210	175	131.3	105	78.8	61.3	43.8	31.5

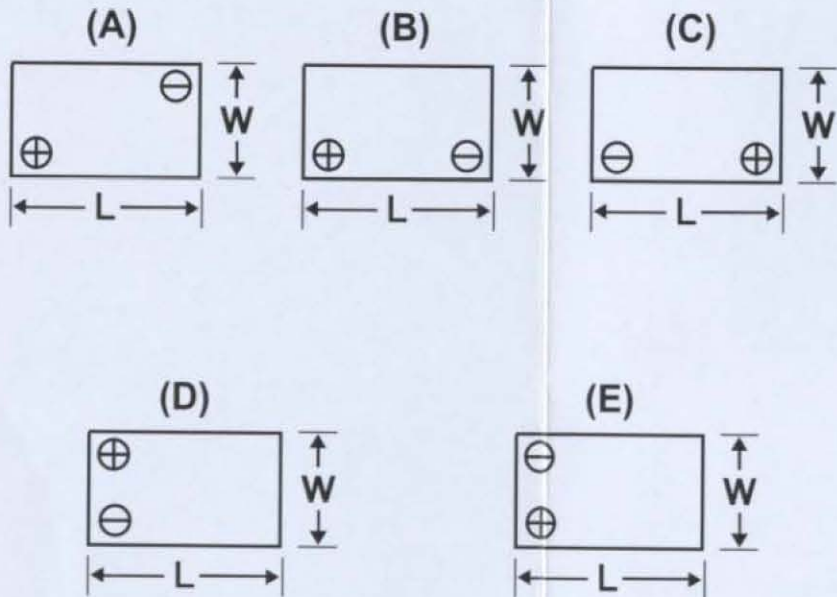
## CASE DIMENSIONS



**SPECIFICATIONS**

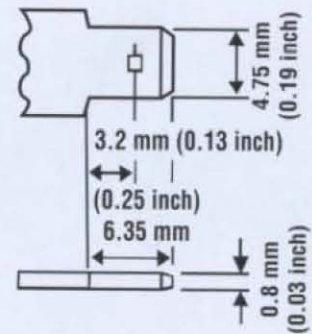
Battery Model No.	Nominal Voltage (V)	Ah Capacity					Approx Internal Resistance mΩ	Maximum		Quantity Per Box	Dimensions						
		Normal 20 Hour 1.75 vpc	Normal 10 Hour 1.75 vpc	Normal 5 Hour 1.70 vpc	Normal 3 Hour 1.70 vpc	Normal 1 Hour 1.55 vpc		Charging Amps	Discharging Amps (Sec5)		Length mm (Inch) L	Width mm (Inch) W	Height Case mm (Inch) H	Overall Height Over Terminalssd mm (Inch) h	Weight kg (lb)	Terminal Position	Terminal Type
PM 6 - 1.3	6	1.3	1.17	1.1	0.98	0.85	70	0.39	39	20	97 (3.82)	23.8 (0.93)	51 (2)	58 (2.28)	0.33 (0.71)	B	ST 1
PM 6 - 4.5	6	4.5	3.85	3.4	3.15	2.625	25	1.35	75	20	70 (2.75)	46 (1.81)	101 (3.97)	107.8 (4.24)	0.82 (1.81)	A	ST 1
PM 6 - 10	6	10	9.4	8.5	7.5	6.8	10	3	120	10	151 (5.94)	50 (1.96)	94 (3.70)	101 (3.97)	2.0 (4.41)	B	ST 1, 2
PM 6 - 12	6	12	10.75	9.75	9	8	10	3.6	180	10	151 (5.94)	50 (1.96)	94 (3.70)	101 (3.97)	2.1 (4.63)	B	ST 1, 2
PM 12 - 1.3	12	1.3	1.17	1.1	0.98	0.85	130	0.39	39	20	96.5 (3.79)	43 (1.69)	52 (2.04)	59 (2.32)	0.64 (1.41)	E	ST 1
PM 12 - 2.2	12	2.2	2	1.8	1.65	1.45	90	0.66	60	10	177.5 (6.98)	35 (1.38)	62 (2.44)	68 (2.68)	0.93 (2.05)	B	ST 1
PM 12 - 3.3	12	3.3	3.05	2.75	2.55	2.2	60	0.99	60	10	133.5 (5.25)	67 (2.63)	61 (2.40)	64 (2.51)	1.29 (2.84)	D	ST 1
PM 12 - 5	12	5	4.4	3.9	3.6	3	40	2.5	75	10	89.5 (3.52)	69.5 (2.73)	101 (3.97)	107.5 (4.23)	1.60 (3.52)	B	ST 1, 2
PM 12 - 7.2	12	7.2	6.5	5.75	5.25	4.5	25	2.16	105	8	151 (5.94)	64.5 (2.53)	95 (3.74)	101.6 (4)	2.57 (5.67)	D	ST 1, 2
PM 12 - 12	12	12	10.75	9.75	9.3	8	20	3.6	180	4	151 (5.94)	99 (3.9)	96 (3.78)	102.3 (4.02)	4.03 (8.88)	D	ST 1, 2
PM 12 - 18	12	18	16.7	15.25	13.8	11	20	5.4	250	2	181 (7.13)	76 (2.99)	167 (6.57)	167 (6.57)	5.96 (13.14)	C	ST 3
PM 12 - 26	12	26	24	20.4	18	15.6	12	6.5	288	1	176 (6.87)	166 (6.49)	128 (4.92)	128 (4.92)	8.52 (18.78)	C	ST 3
PM 12 - 44	12	44	40.5	34	30	26	11	11	360	1	198 (7.71)	166 (6.45)	170 (6.71)	170 (6.71)	14.5 (30.86)	C	ST 4
PM 12 - 65	12	65	61	51	45	36	9	16.3	400	1	350 (13.77)	167 (6.53)	185 (6.85)	185 (6.85)	21.5 (47.4)	C	ST 4
PM 12 - 70	12	73	70	59.5	52.5	42	7	17.5	420	1	303 (11.93)	173 (6.81)	221 (8.70)	221 (8.70)	26.5 (58.42)	C	ST 4
PM 12 - 80	12	80	75	63	56	48	6	20	450	1	351 (13.81)	166 (6.54)	175 (6.89)	175 (6.89)	28 (61.73)	C	ST 4
PM 12 - 100	12	105	100	85	75	60	5	25	550	1	331 (13.03)	174 (6.85)	219 (8.62)	240 (9.45)	32 (70.55)	C	ST 4

## TERMINAL POSITION



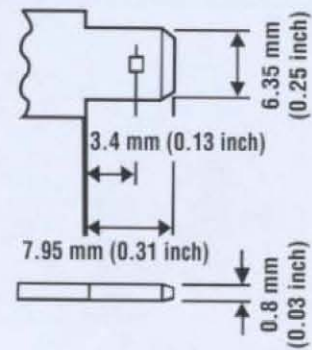
## TERMINAL TYPE

### ST1



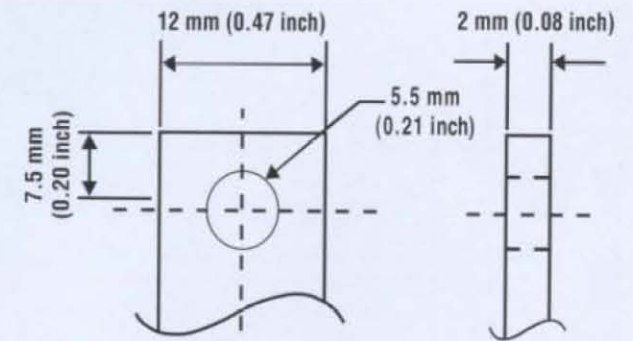
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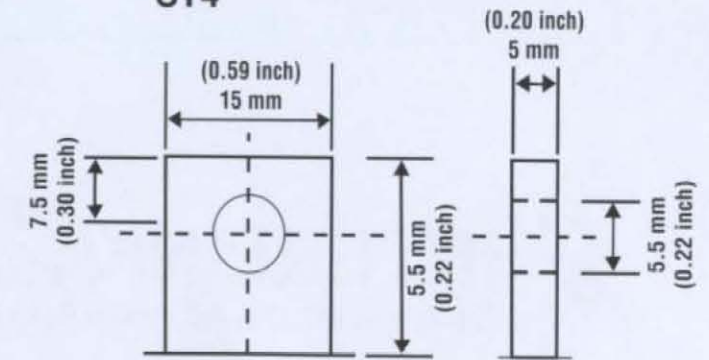
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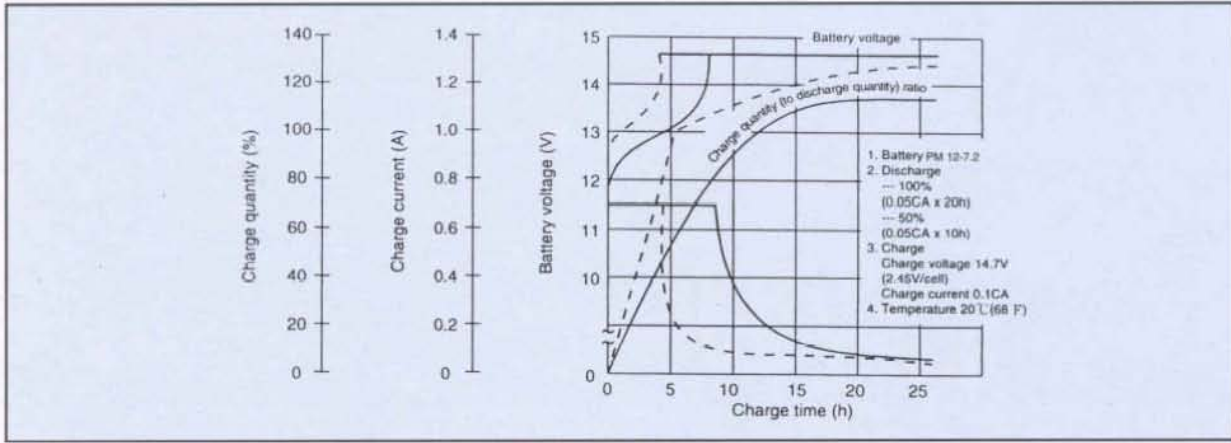
(M4 bolt & nut)

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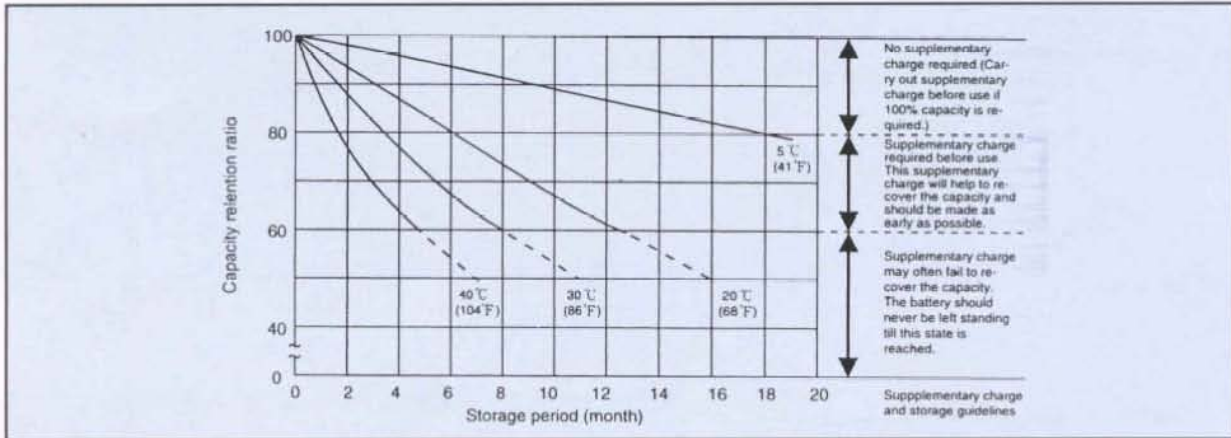


(M5 bolt & nut)

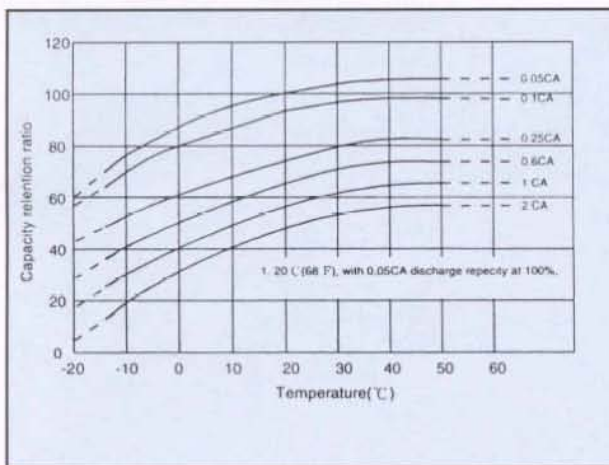
## For cycle use



## Capacity retention characteristic



## Temperature and discharge capacity



## Discharge characteristics at various rates (25°C)

