

Sealed Rechargeable VRLA Batteries



AGM VRLA Batteries



Engineered With Vision. Built With Care.

The Power-Sonic Corporation has been a leading force since 1970 in the supply of high quality cost effective batteries. Power-Sonic markets an extensive range of rechargeable sealed lead acid batteries worldwide. These batteries envelop a broad spectrum of electronic and industrial applications, either as the prime or standby power source. Engineers and buyers continue to insist on Power-Sonic batteries, wherever reliable and cost effective DC power is required.

Power-Sonic is dedicated to continual product development to improve the performance and reliability of our product range. New batteries are constantly being introduced to meet the ever evolving needs of industry. We strive to produce batteries with superior performance characteristics and value, through advanced engineering and state-of-the art manufacturing processes, coupled with the use of premium raw materials.

Providing our customers with reliable, yet economical, products is the corner stone of the Power-Sonic mission.

Features

- **Sealed/Maintenance-Free**
The valve regulated, spill-proof construction allows trouble-free, safe operation in any position. There is no need to add electrolyte, as gases generated during overcharge are recombined in a unique "oxygen cycle."
- **Valve Regulated Design**
Our batteries incorporate a series of one-way low pressure valves. These self sealing valves allow the venting of any excess gasses that may be produced in the battery due to severe overcharging. Valve regulated batteries should never be recharged inside a sealed container.
- **Design Flexibility**
Batteries may be used in series and/or parallel to obtain choice of voltage and capacity. Due to recent design breakthroughs, the same battery may be used in either cyclic or standby applications. Over 60 models are available to choose from.
- **Compact**
Power-Sonic batteries use state-of-the-art design, high grade materials, and a carefully controlled plate-making process to provide excellent output per cell. The high energy density results in superior power/volume and power/weight ratios.
- **Rugged Construction**
The high impact resistant battery case is made of non-conductive ABS plastic to UL94-HB. This material imparts very good resistance to shock, vibration, chemicals and heat. Certain models feature flame retardant (FR) cases/covers to UL94 V-O.
- **Wide Operating Temperature Range**
Power-Sonic batteries may be discharged over a temperature range of -40°C to +60°C (-40°F to +140°F) and charged at temperatures ranging from -40°C to +50°C (-40°F to +122°F).
- **Long Service Life**
Under normal operating conditions, four or five years of dependable service life can be expected in stand-by applications, or between 200 and 1000 charge/ discharge cycles depending on the average depth of discharge.
- **Deep Discharge Recovery**
Special separators, advanced plate composition, and a carefully balanced electrolyte system have greatly improved the ability to recover from excessively deep discharge.
- **Lead Calcium Plates**
Heavy duty lead calcium plates provide an extra margin of performance and life in both cyclic and float applications and give unequaled recovery from deep discharge.
- **Economical**
The high watt-hour per dollar value is made possible by the materials used in a sealed lead-acid battery: they are readily available and low in cost.
- **Operation in any Orientation**
Our SLA batteries can be be charged & discharged in any orientation except upside down without reduction in performance or leakage of electrolyte.
- **High Rate Discharge**
Low internal resistance allows discharge currents of up to ten times the battery's rated capacity. Relatively small batteries may thus be specified in applications requiring high peak currents.
- **Long Shelf Life**
A low self discharge rate allows storage of fully charged batteries for extended periods of time before charging is required. Lower storage temperatures further enhance shelf life characteristics.



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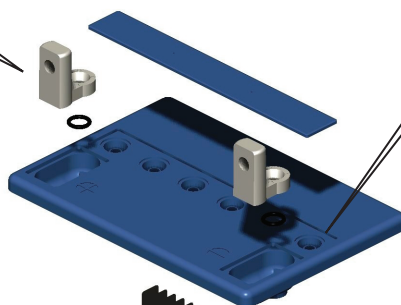
📍 Unit 20, 256-258 Musgrave Road, Coopers Plains Qld 4108 (Head Office)

📦 Po Box 5322, Daisy Hill QLD 4127

Battery Construction

Terminals

Depending on the model, batteries come either with AMP Faston type terminals made of tin plated brass, post type terminals of the same composition with threaded nut and bolt hardware, or heavy duty flag terminals made of lead alloy. A special epoxy is used as sealing material surrounding the terminals.

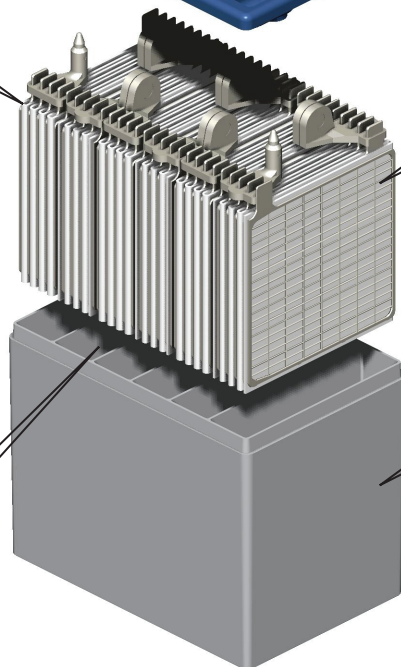


Relief valve

In case of excessive gas pressure build-up inside the battery, the relief valve will open and relieve the pressure. The one-way valve not only ensures that no air gets into the battery where the oxygen would react with the plates causing internal discharge, but also represents an important safety device in the event of excessive overcharge. Vent release pressure is between 2-6 psi; the seal ring material is neoprene rubber.

Plates (electrodes)

Power-Sonic utilizes the latest technology and equipment to cast grids from a lead-calcium alloy free of antimony. The small amount of calcium and tin in the grid alloy imparts strength to the plate and guarantees durability even in extensive cycle service. Lead dioxide paste is added to the grid to form the electrically active material. In the charged state, the negative plate paste is pure lead and that of the positive lead dioxide. Both of these are in a porous or spongy form to optimize surface area and thereby maximize capacity. The heavy duty lead calcium alloy grids provide an extra margin of performance and life in both cyclic and float applications and give unparalleled recovery from deep discharge



Separators

Power-Sonic separators are made of non-woven glass fiber cloth with high heat and oxidation resistance. The material further offers superior electrolyte absorption and retaining ability, as well as excellent ion conductivity.

Electrolyte

Immobilized dilute sulfuric acid: H_2SO_4 .

Container & case sealing

Case and lid material is ABS, high impact, resin with high resistance to chemicals and flammability. Case and cover are made of non-conductive ABS plastic to UL94-HB or UL94 V-O. Depending on the model the case sealing is ultrasonic, epoxy or heat seal.

Typical Applications

Power Sources

- Back-up power
- Computers
- UPS

Communications

- GPS equipment
- Marine communications
- Telecommunication systems

Lighting

- Emergency lighting
- Exit lights
- Hand held lights

Security Systems

- Burglar / Fire alarms
- Monitoring alarms
- Metal detectors

Automotive

- Electronic memory accessories
- Braking / Fuel systems

Recreation

- Fish finders
- Ride-on toys
- Electrical bicycles/scooters

Portable Equipment

- Audio-visual devices
- Test and measuring equipment
- Consumer electronics

Monitoring Equipment

- Fiber-optic test equipment
- Scientific instruments
- Weather instrumentation

Agricultural

- Livestock/game feeders
- Containment fencing

Military

- Aerospace
- Aircraft instrumentation
- Fire control systems

Miscellaneous

- Invisible fences
- DC power lifts
- Floor scrubbers
- Laser products
- Robotics
- Advertising signs

Battery Chargers

Power-sonic offers a wide range of chargers suitable for batteries up to 100AH. Please refer to the Charger Selection Guide in our specification sheets for "C-Series Switch Mode Chargers" and "Transformer Type A and F Series". Please contact our technical department for advice if you have difficulty in locating suitable models.



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📍 Unit 20, 256-258 Musgrave Road, Coopers Plains Qld 4108 (Head Office)

📦 Po Box 5322, Daisy Hill QLD 4127

PS-SERIES: General Purpose Batteries

| Model | Nominal Voltage V | Nominal Capacity A.H. | Current @ 20-hr. rate mA | Length | | Width | | Height | | Ht. Over Terminal | | Weight | | Standard Terminals |
|---------------|-------------------|-----------------------|--------------------------|--------|-----|-------|-----|--------|-----|-------------------|-----|--------|-------|--------------------|
| | | | | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kgs. | |
| PS-260 | 2 | 6.0 | 300 | 1.97 | 50 | 1.34 | 34 | 3.94 | 100 | 4.13 | 105 | 0.89 | 0.40 | F1 |
| PS-445 | 4 | 4.5 | 225 | 1.89 | 48 | 2.09 | 53 | 3.70 | 94 | 3.86 | 98 | 1.30 | 0.59 | F2 |
| PS-490 | 4 | 9.0 | 450 | 4.01 | 102 | 1.73 | 44 | 3.74 | 95 | 4.02 | 102 | 2.20 | 1.00 | F2 |
| PS-4100 | 4 | 10.0 | 500 | 4.01 | 102 | 1.97 | 50 | 3.70 | 94 | 3.85 | 98 | 2.50 | 1.13 | F1 |
| PS-610 | 6 | 1.1 | 55 | 2.00 | 51 | 1.65 | 42 | 2.00 | 51 | 2.20 | 56 | 0.44 | 0.20 | F1 |
| PS-612 | 6 | 1.4 | 70 | 3.82 | 97 | 0.94 | 24 | 2.00 | 51 | 2.20 | 56 | 0.66 | 0.30 | F1 |
| PS-621 | 6 | 2.0 | 100 | 1.69 | 43 | 1.46 | 37 | 2.99 | 76 | 2.99 | 76 | 0.75 | 0.34 | F1/0 |
| PS-628 | 6 | 2.9 | 145 | 2.60 | 66 | 1.30 | 33 | 3.86 | 98 | 4.06 | 103 | 1.30 | 0.59 | F1 |
| PS-630 | 6 | 3.5 | 175 | 5.28 | 134 | 1.34 | 34 | 2.35 | 60 | 2.56 | 65 | 1.37 | 0.62 | F1 |
| PS-632 | 6 | 3.5 | 175 | 2.60 | 66 | 1.30 | 33 | 4.65 | 118 | 4.80 | 122 | 1.37 | 0.62 | F1 |
| PS-640 | 6 | 4.5 | 225 | 2.76 | 70 | 1.86 | 47 | 3.94 | 100 | 4.25 | 108 | 1.60 | 0.73 | F1 |
| PS-650LS & LF | 6 | 5.0 | 250 | 2.64 | 67 | 2.64 | 67 | 3.94 | 100 | 4.64 | 118 | 1.80 | 0.82 | F1 or SP |
| PS-660 | 6 | 6.6 | 275 | 2.76 | 70 | 1.85 | 47 | 3.94 | 100 | 4.17 | 106 | 2.10 | 0.95 | F1 |
| PS-670 | 6 | 7.0 | 350 | 5.95 | 151 | 1.34 | 34 | 3.70 | 94 | 3.94 | 100 | 2.42 | 1.10 | F1 |
| PS-682 | 6 | 9.0 | 450 | 3.86 | 98 | 2.20 | 56 | 4.65 | 118 | 4.72 | 120 | 3.20 | 1.45 | F1 |
| PS-6100 | 6 | 12.0 | 600 | 5.95 | 151 | 2.00 | 51 | 3.70 | 94 | 3.86 | 98 | 4.30 | 1.95 | F1 or F2 |
| PS-6120FP | 6 | 13.0 | 650 | 4.25 | 108 | 2.80 | 71 | 5.55 | 141 | 5.55 | 141 | 4.80 | 2.18 | FP |
| PS-6200 | 6 | 20.0 | 1000 | 6.18 | 157 | 3.27 | 83 | 4.92 | 125 | 4.92 | 125 | 7.10 | 3.22 | NB1 |
| PS-6360 | 6 | 36.0 | 1800 | 6.25 | 159 | 3.35 | 85 | 6.50 | 165 | 6.93 | 176 | 12.10 | 5.49 | F2 or NB1 |
| PS-62000 | 6 | 210.0 | 10500 | 12.05 | 306 | 6.65 | 169 | 8.65 | 220 | 8.96 | 228 | 63.93 | 29.00 | T8 |
| PS-832 | 8 | 3.2 | 160 | 5.29 | 134 | 1.42 | 36 | 2.49 | 63 | 2.70 | 69 | 1.65 | 0.75 | F1 |
| PS-1208 | 12 | 0.8 | 40 | 3.78 | 96 | 0.98 | 25 | 2.44 | 62 | n/a | n/a | 0.77 | 0.35 | WL |
| PS-1212 | 12 | 1.4 | 70 | 3.78 | 96 | 1.69 | 43 | 2.04 | 52 | 2.28 | 58 | 1.20 | 0.54 | F1 |
| PS-1220 | 12 | 2.5 | 125 | 7.00 | 178 | 1.38 | 35 | 2.36 | 60 | 2.56 | 65 | 2.10 | 0.95 | F1 |
| PS-1221S | 12 | 2.0 | 100 | 5.91 | 150 | 0.80 | 20 | 3.52 | 89 | n/a | n/a | 1.50 | 0.68 | F1/0 |
| PS-1223 | 12 | 2.3 | 115 | 7.17 | 182 | 0.94 | 24 | 2.40 | 61 | 2.40 | 61 | 1.70 | 0.77 | PC |
| PS-1227 | 12 | 2.9 | 145 | 3.11 | 79 | 2.20 | 56 | 3.90 | 99 | 4.13 | 105 | 2.40 | 1.09 | F1 |
| PS-1228 | 12 | 2.8 | 140 | 5.24 | 133 | 1.30 | 33 | 3.82 | 97 | 4.09 | 104 | 2.60 | 1.18 | F1 |
| PS-1230 | 12 | 3.4 | 170 | 5.24 | 133 | 2.64 | 67 | 2.36 | 60 | 2.60 | 66 | 2.90 | 1.32 | F1 |
| PS-1238 | 12 | 3.8 | 190 | 7.68 | 195 | 1.85 | 47 | 2.91 | 74 | 2.91 | 74 | 3.50 | 1.59 | F1 |
| PS-1250 | 12 | 5.0 | 250 | 3.54 | 90 | 2.76 | 70 | 3.98 | 101 | 4.21 | 107 | 3.50 | 1.59 | F1 or F2 |
| PS-1260 | 12 | 6.0 | 300 | 3.54 | 90 | 2.76 | 70 | 3.98 | 101 | 4.21 | 107 | 4.00 | 1.81 | F2 |
| PS-1270 | 12 | 7.0 | 350 | 5.95 | 151 | 2.56 | 65 | 3.70 | 94 | 3.86 | 98 | 4.80 | 2.18 | F1 or F2 |
| PS-1280 | 12 | 8.5 | 425 | 5.94 | 151 | 2.56 | 65 | 3.70 | 94 | 3.86 | 98 | 6.00 | 2.72 | F2 |
| PS-1290 | 12 | 8.5 | 425 | 5.95 | 151 | 2.56 | 65 | 3.70 | 94 | 3.86 | 98 | 6.00 | 2.72 | F2 |
| PS-12100H | 12 | 10.5 | 550 | 5.94 | 151 | 2.56 | 65 | 4.37 | 111 | 4.61 | 117 | 7.00 | 3.18 | F2 |
| PS-12120 | 12 | 12.0 | 600 | 5.95 | 151 | 3.86 | 98 | 3.70 | 94 | 3.94 | 100 | 7.92 | 3.59 | F2 |
| PS-12140 | 12 | 14.0 | 700 | 5.95 | 151 | 3.86 | 98 | 3.70 | 94 | 3.94 | 100 | 9.25 | 4.20 | F2 |
| PS-12180 | 12 | 18.0 | 900 | 7.13 | 181 | 3.00 | 76 | 6.59 | 167 | 6.59 | 167 | 12.60 | 5.72 | F2 or NB2 |
| PS-12200 | 12 | 20.0 | 1000 | 7.14 | 181 | 3.03 | 77 | 6.59 | 167 | 6.59 | 167 | 13.20 | 5.99 | NB2 |
| PS-12260 | 12 | 26.0 | 1300 | 6.56 | 167 | 6.97 | 177 | 4.92 | 125 | 4.92 | 125 | 17.00 | 7.71 | F2 or NB2 |
| PS-12280 | 12 | 28.0 | 1400 | 6.50 | 165 | 4.92 | 125 | 6.97 | 177 | 6.97 | 177 | 20.70 | 9.39 | NB1 |
| PS-12330 | 12 | 33.0 | 1650 | 7.72 | 196 | 5.14 | 131 | 6.22 | 158 | 7.00 | 178 | 23.10 | 10.50 | NB3 |
| PS-12350 | 12 | 33.0 | 1750 | 7.72 | 196 | 5.14 | 131 | 6.22 | 158 | 7.00 | 178 | 24.70 | 11.20 | NB3 |
| PS-12400 | 12 | 40.0 | 2000 | 7.76 | 197 | 6.50 | 165 | 6.69 | 170 | 6.69 | 170 | 29.10 | 13.20 | NB4 |
| PS-12550 | 12 | 55.0 | 2750 | 9.04 | 230 | 5.45 | 138 | 8.15 | 207 | 8.98 | 228 | 36.00 | 16.33 | U |
| PS-12750 | 12 | 75.0 | 3750 | 10.25 | 260 | 6.60 | 168 | 8.15 | 207 | 8.98 | 228 | 50.60 | 22.95 | U |
| PS-121000 | 12 | 100.0 | 5000 | 12.00 | 305 | 6.60 | 168 | 8.15 | 207 | 8.98 | 228 | 68.00 | 30.84 | U |
| PS-121100 | 12 | 110.0 | 5500 | 13.00 | 330 | 6.73 | 171 | 8.35 | 212 | 8.66 | 220 | 69.50 | 31.52 | T11 |
| PS-121400 | 12 | 140.0 | 7000 | 13.50 | 343 | 6.73 | 171 | 10.80 | 274 | 11.15 | 283 | 99.00 | 44.91 | T11 |

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📍 Unit 20, 256-258 Musgrave Road, Coopers Plains Qld 4108 (Head Office)

📦 Po Box 5322, Daisy Hill QLD 4127

PG-SERIES: Power-Guard Long Life Batteries*

| Model | Nominal Voltage | Rated Capacity (A.H.) | | | Length | | Width | | Height | | Ht. Over Terminal | | Weight | | Standard Terminals |
|-----------|-----------------|-----------------------|-------|-------|--------|-----|-------|-----|--------|-----|-------------------|-----|--------|------|--------------------|
| | | 10-hr. | 5-hr. | 1-hr. | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kgs. | |
| PG-6V210 | 6 | 210.0 | 180.5 | 126.0 | 12.70 | 323 | 7.00 | 178 | 8.98 | 228 | 9.21 | 234 | 71.6 | 32.5 | T11 |
| PG-12V28 | 12 | 28.0 | 25.5 | 18.6 | 6.56 | 167 | 6.96 | 177 | 4.92 | 125 | 4.92 | 125 | 18.5 | 8.4 | T12 |
| PG-12V35 | 12 | 35.0 | 32.5 | 27.0 | 7.72 | 196 | 5.10 | 130 | 6.22 | 158 | 6.97 | 177 | 24.5 | 11.1 | T6 |
| PG-12V42 | 12 | 42.0 | 36.0 | 25.2 | 7.76 | 197 | 6.50 | 165 | 6.69 | 170 | 6.14 | 156 | 32.0 | 14.5 | T6 |
| PG-12V55 | 12 | 56.0 | 47.5 | 33.0 | 8.98 | 228 | 5.39 | 137 | 8.27 | 210 | 8.50 | 216 | 36.0 | 16.4 | T6 |
| PG-12V75 | 12 | 75.0 | 64.5 | 45.0 | 13.70 | 348 | 6.57 | 167 | 7.00 | 178 | 6.46 | 164 | 51.0 | 23.1 | T6 |
| PG-12V75T | 12 | 75.0 | 64.5 | 45.0 | 10.24 | 260 | 6.61 | 168 | 8.27 | 210 | 8.51 | 216 | 55.0 | 24.9 | T6 |
| PG-12V100 | 12 | 100.0 | 87.0 | 60.8 | 12.05 | 306 | 6.61 | 168 | 8.27 | 210 | 8.51 | 216 | 69.5 | 31.5 | T6 |
| PG-12V110 | 12 | 110.0 | 88.5 | 67.1 | 13.00 | 330 | 6.80 | 173 | 8.35 | 212 | 8.66 | 220 | 69.2 | 31.4 | T11 |
| PG-12V120 | 12 | 124.0 | 106.5 | 74.4 | 16.14 | 410 | 6.97 | 177 | 8.86 | 225 | 8.30 | 211 | 81.5 | 37.0 | T11 |
| PG-12V140 | 12 | 144.0 | 120.5 | 84.0 | 13.50 | 345 | 6.73 | 171 | 10.79 | 274 | 11.02 | 280 | 99.0 | 44.9 | T11 |
| PG-12V150 | 12 | 153.0 | 131.5 | 91.8 | 19.09 | 485 | 6.70 | 170 | 9.53 | 242 | 8.82 | 224 | 103.3 | 46.7 | T11 |
| PG-12V200 | 12 | 210.0 | 180.5 | 126.0 | 20.55 | 522 | 9.45 | 240 | 8.58 | 218 | 8.82 | 224 | 144.0 | 65.3 | T11 |

PGFT-SERIES: Front Terminal Batteries*

| Model | Nominal Voltage | Rated Capacity | | Length | | Width | | Height | | Weight | | Standard Terminal |
|--------------|-----------------|----------------|-------|--------|-----|-------|-----|--------|-------|--------|------|-------------------|
| | | 20-hr | 10-hr | in. | mm. | in. | mm. | in. | mm. | lbs.. | kgs. | |
| PGFT-12V55 | 12 | 60.6 | 57.1 | 10.91 | 277 | 4.17 | 106 | 8.74 | 222 | 61.71 | 28.0 | T6 |
| PGFT-12V75 | 12 | 82.6 | 77.9 | 22.20 | 564 | 4.49 | 114 | 7.36 | 187 | 57.30 | 26.0 | T6 |
| PGFT-12V90 | 12 | 99.0 | 93.4 | 20.00 | 508 | 4.33 | 110 | 9.39 | 238.5 | 68.32 | 31.0 | T13 |
| PGFT-12V90H | 12 | 99.0 | 93.4 | 15.51 | 394 | 4.33 | 110 | 11.22 | 285 | 71.85 | 32.6 | T6 |
| PGFT-12V100 | 12 | 110.0 | 103.8 | 22.05 | 560 | 4.33 | 110 | 9.17 | 233 | 78.46 | 35.6 | T13 |
| PGFT-12V100H | 12 | 110.0 | 103.8 | 15.51 | 394 | 4.33 | 110 | 11.22 | 285 | 76.04 | 34.5 | T13 |
| PGFT-12V125 | 12 | 137.6 | 129.8 | 21.69 | 551 | 4.33 | 110 | 11.30 | 287 | 89.26 | 40.5 | T6 |
| PGFT-12V150 | 12 | 158.8 | 150.0 | 21.69 | 551 | 4.33 | 110 | 11.30 | 287 | 102.30 | 46.4 | T6 |
| PGFT-12V180 | 12 | 190.0 | 180.0 | 22.05 | 560 | 4.96 | 126 | 11.02 | 280 | 119.02 | 54.0 | T13 |

PDC-SERIES: AGM Deep Cycle Batteries

| Model | Nominal Voltage | Rated Capacity AH | | Length | | Width | | Height | | Total Height | | Weight | | Standard Terminal |
|------------|-----------------|-------------------|-------|--------|-------|-------|-----|--------|------|--------------|-----|--------|------|-------------------|
| | | 20-hr | 10-hr | in. | mm. | in. | mm. | in. | mm. | in. | mm. | lbs. | kgs. | |
| PDC-1275 | 12 | 7.5 | 7.2 | 5.94 | 151 | 2.56 | 65 | 3.72 | 94.5 | 3.94 | 100 | 5.5 | 2.5 | F2 |
| PDC-1285 | 12 | 8.5 | 8.0 | 5.94 | 151 | 2.56 | 65 | 3.72 | 94.5 | 3.94 | 100 | 6.0 | 2.7 | F2 |
| PDC-12140 | 12 | 14.0 | 13.0 | 5.96 | 151.5 | 3.92 | 100 | 3.82 | 97 | 3.98 | 101 | 9.5 | 4.3 | F2 |
| PDC-12200 | 12 | 21.0 | 20.0 | 7.15 | 181.5 | 3.01 | 77 | 6.73 | 171 | 6.73 | 171 | 15 | 6.9 | B (T12) |
| PDC-12260 | 12 | 28.0 | 26.0 | 6.56 | 166.5 | 6.89 | 175 | 4.92 | 125 | 4.92 | 125 | 21 | 9.4 | NB |
| PDC-12260H | 12 | 26.0 | 24.0 | 6.50 | 165 | 4.92 | 125 | 6.89 | 175 | 6.89 | 175 | 21 | 9.5 | B (T12) |
| PDC-12350 | 12 | 35.0 | 33.0 | 7.68 | 195 | 5.12 | 130 | 6.46 | 164 | 7.09 | 180 | 25 | 11.2 | NB |
| PDC-12400 | 12 | 40.0 | 38.0 | 7.76 | 197 | 6.50 | 165 | 6.69 | 170 | 6.69 | 170 | 32 | 14.5 | B (T6) |
| PDC-12600 | 12 | 60.0 | 55.0 | 9.04 | 230 | 5.45 | 138 | 8.27 | 210 | 8.66 | 220 | 39 | 17.7 | U (T9) |
| PDC-12800 | 12 | 80.0 | 75.0 | 10.24 | 260 | 6.61 | 168 | 8.27 | 210 | 9.06 | 230 | 50 | 22.7 | U (T14) |
| PDC-121000 | 12 | 100 | 92.0 | 12.05 | 306 | 6.61 | 168 | 8.27 | 210 | 8.50 | 216 | 61 | 27.5 | U (T14) |
| PDC-121100 | 12 | 107 | 100 | 12.99 | 330 | 6.81 | 173 | 8.46 | 215 | 8.66 | 220 | 67 | 30.4 | B (T6) |
| PDC-121200 | 12 | 120 | 115 | 12.99 | 330 | 6.81 | 173 | 8.35 | 212 | 8.66 | 220 | 69 | 31.4 | B (T11) |
| PDC-121300 | 12 | 128 | 120 | 16.14 | 410 | 6.97 | 177 | 8.86 | 225 | 8.86 | 225 | 83 | 37.6 | B (T11) |
| PDC-121600 | 12 | 161 | 150 | 19.09 | 485 | 6.69 | 170 | 9.45 | 240 | 9.45 | 240 | 94 | 42.5 | B (T11) |
| PDC-122000 | 12 | 214 | 200 | 20.55 | 522 | 9.45 | 240 | 8.58 | 218 | 8.82 | 224 | 138 | 62.5 | B (T11) |
| PDC-122500 | 12 | 268 | 250 | 20.55 | 522 | 10.55 | 268 | 8.66 | 220 | 8.90 | 226 | 161 | 73.0 | B (T11) |

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* Also available in "FR": UL94 V-0 rated



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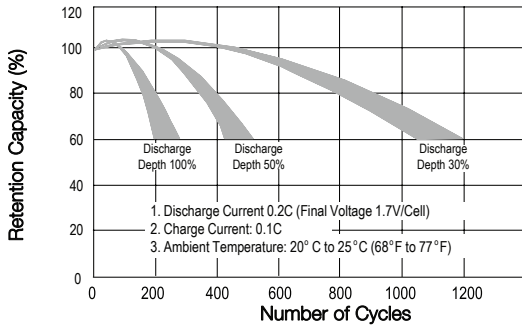
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Unit 20, 256-258 Musgrave Road, Coopers Plains Qld 4108 (Head Office)

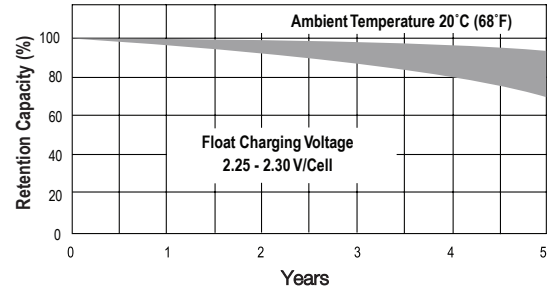
Po Box 5322, Daisy Hill QLD 4127

Performance Characteristics: PS Series

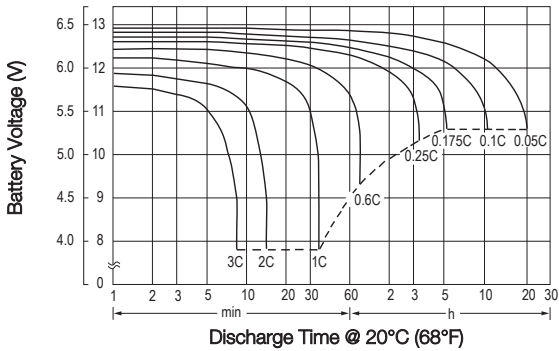
Life Characteristics in Cyclic Use



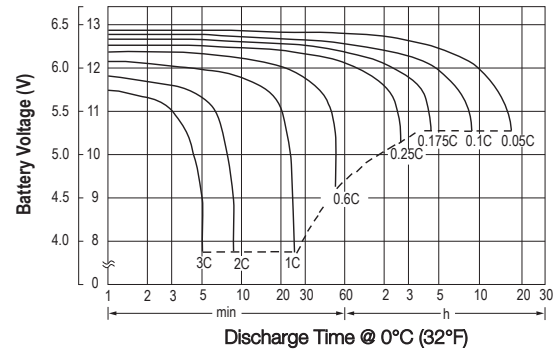
Life Characteristics in Stand-by Use



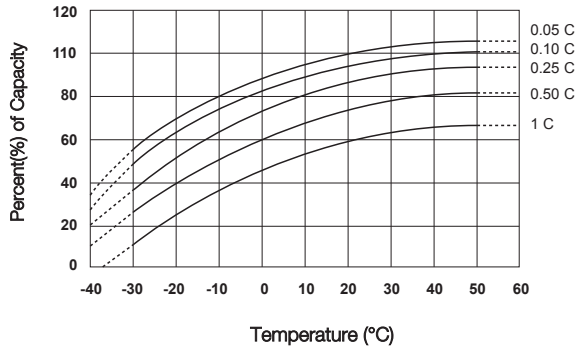
Characteristic Discharge Curves



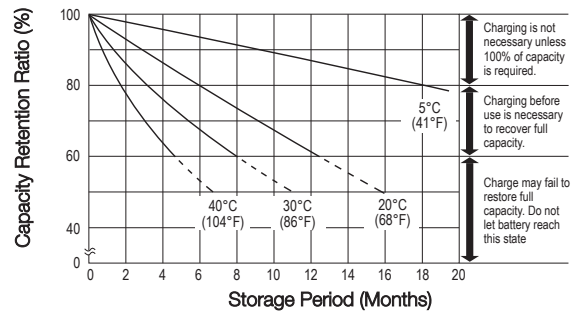
Characteristic Discharge Curves



Effect of Temperature on Capacity

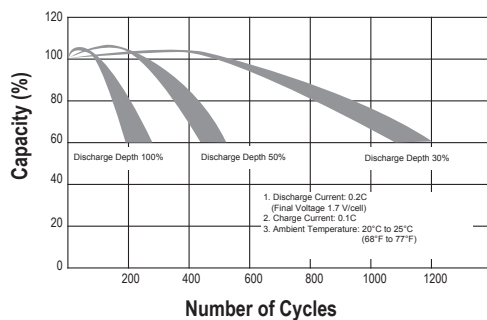


Self-Discharge Characteristics

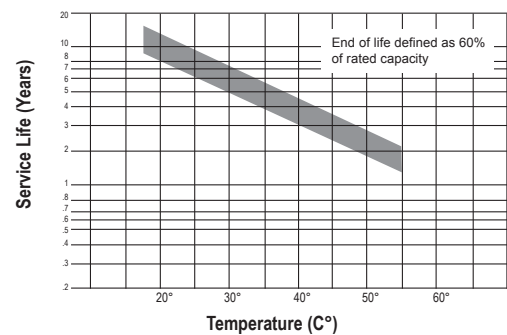


Performance Characteristics: PG & PGFT Series

Depth of Discharge vs. Number of Cycles

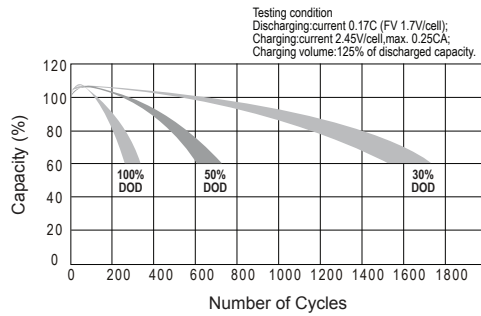


Service Life at Various Ambient Temperatures

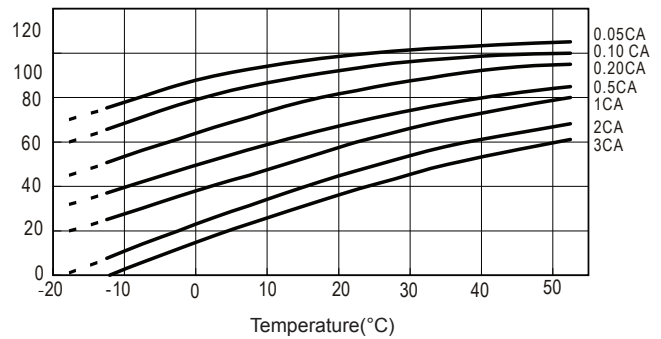


Performance Characteristics: PDC Series

Cycle Life in Relation to Depth of Discharge



Effects of Temperature on Capacity



Charging

Cycle Applications: Limit initial current to 0.25C (C is the nominal amp hour capacity of the battery). Charge until battery voltage (under charge) reaches 2.45 volts per cell at 68°F (20°C). Hold at 2.45 volts per cell until current drops to approximately 0.01C ampere. Battery is fully charged under these conditions, and charger should either be disconnected or switched to "float" voltage.

"Float" or "Stand-by" Service: Hold battery across constant voltage source of 2.25 to 2.30 volts per cell continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

Application Notes


Continuous over- or undercharging is the single worst enemy of a lead-acid battery. Caution should be exercised to insure that the charger is disconnected after cycle charging, or that the float voltage is set correctly.

Because there is a chance of off-gassing hydrogen and oxygen if the battery is overcharged, it is important to provide adequate air circulation. Never charge or discharge a battery in a hermetically sealed enclosure.

Batteries should not be stored in a discharged state (or in a hot place). If a battery is discharged for some time it may not readily take a charge. To overcome this, leave the charger connected and the battery should eventually begin to accept a charge.

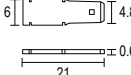
Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation. To prolong shelf life without charging, store batteries at 50°F (10°C) or less.


Terminal Options

F1  **FASTON**
0.187" x 0.032"
quick disconnect tabs.

F2  **FASTON**
0.250" x 0.032"
quick disconnect tabs

FP  **FASTON POLARIZED**
Positive: "F2", Negative: "F1"

F1/0  6 4.8
21 0.6

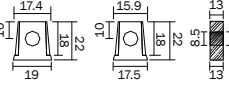
SP  **SPRING TERMINALS**
Fully collapsible positive and negative contacts

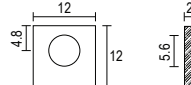
WL **INSULATED WIRE LEADS**
• Molex Housing 5264-02 & 5263-PBT plug on PS-605
• AMP Housing 1-480318-0 & 8116-1 on PS-1208

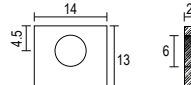
PC **PRESSURE CONTACTS**

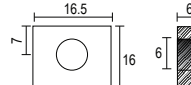
TH  **TOY BATTERY CONNECTORS**
H-connector PS-6120 TH

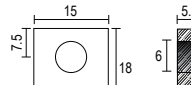
TS  **TOY BATTERY CONNECTORS**
S-connector PS-6120 TS

U  17.4 15.9 13 19 17.5 13
Positive Negative
Torque: 11.0~14.7 Nxm

NB1  12 12 4.6 1.6 2
Torque: 2.0~3.0 Nxm

NB2  14 13 4.5 6 2
Torque: 3.9~5.4 Nxm

NB3  16.5 16 7 6 6
Torque: 3.9~5.4 Nxm

NB4  15 18 7.5 6 5.5
Torque: 3.9~5.4 Nxm

T6 **THREADED INSERT - 6mm STUD**
16mm M6 6mm
Torque: 3.9~5.4 Nxm

T8 **THREADED INSERT - 6mm STUD**
20mm M6 6mm
Torque: 3.9~5.4 Nxm

T11 **THREADED INSERT - 8mm STUD**
20mm M8 7mm
Torque: 11.0~14.7 Nxm

T12 **THREADED INSERT - 5mm STUD**
12mm M5 6mm
Torque: 2.0~3.0 Nxm



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poweronaustralia.com.au

Power On Australia Pty Ltd - ABN 48 110 752 442

Unit 20, 256-258 Musgrave Road, Coopers Plains Qld 4108 (Head Office)

Po Box 5322, Daisy Hill QLD 4127

Quality is always #1



We employ IQC, PQC and ISO 9001 Quality Management Systems to test materials, monitor manufacturing processes and evaluate finished products prior to shipment. All our batteries are 100% tested with advanced computer equipment prior to being released for sale.

Power-Sonic management and staff are committed to providing the best possible service to satisfy our customer's needs, and fulfill our undertaking to deliver top grade products on time and at a competitive price.



Our batteries are manufactured to international standards including JIS, DIN and IEC and have UL and CE certification.



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