

POWER SOLAR SERIES

POWER 
Power for a World of Applications

PSG-1260

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

**ADVANCED GEL TECHNOLOGY
(AGM + GEL)**

SUPERIOR DISCHARGE PROFILE

The Power Solar Advanced Gel batteries are designed and manufactured to handle every aspect of the demanding solar industry. The PSG series is built to withstand the wide range of environments, storage, extreme operating conditions and charge/discharge cycles that Solar applications require.



SPECIFICATIONS

| | |
|----------------------------------------------------------------------|-------------------------------------------------------|
| Cells per unit | 6 |
| Nominal voltage | 12 |
| Terminal Type | 1/4" Stud |
| Capacity @ 77°F (25°C) to 1.75v.p.c. | 55 AH (20 Hours) 58 AH (100 Hours) |
| kWh to 1.75VPC | 0.392 (20 hrs) 0.438 (100 hrs) |
| Short circuit current | 3200 amps |
| Max discharge rate (1min rate) | 230 amps |
| Impedance @ 77°F 25°C | 6.4 milliohms |
| Electrolyte (S.G.) | 1.300 |
| CA (MCA) @ 32°F | 550 |
| Ideal operating temperature range | 68°F (20°C) to 77°F (25°C) |
| Extended operating temperature range | Discharge: -40°F to +140°F Charge: -60°F to +160°F |
| Float Voltage | 2.25 to 2.3 Volts Per Cell |
| Cycle Service Voltage | 2.33 to 2.36 Volts Per Cell |
| Max charging rate | Cycle - 11 amps Float - 9 amps |
| Discharge Rate to 1.75 Volts Per Cell | 3 hours - 14 5 hours - 9 10 hours - 4.8 |
| Weight lbs | 38.8 |
| Length x Width x Height case (Height to the top of the terminals) | 9.00" x 5.43" x 8.31" (9.50") |

FEATURES

- Advanced Gel Technology, provides deep cycle capability and better recharge profile throughout the life of the battery.
- Gas recombination greater than 99%.
- Sealed Non-spillable construction. Needs no water additions and will not allow electrolyte spills.
- Shock absorbent polypropylene plastic. Resistant to extreme temperatures and vibration.
- Operates at a low internal pressure.
- Thermally welded case to cover bond, eliminates the risk of acid and electrical leaks.
- Oversized internal components insures minimal voltage drop and more power availability.
- Each cell has a low pressure safety release venting system to prevent explosions, recognized per U.L. 924.
- Industrial grade battery plates.
- Puncture proof separator.
- Measured high vacuum acid fill, reduces electrical variability between cells.
- Can be used in any position, except upside down.
- Lifting handle.
- 100% recyclable materials.

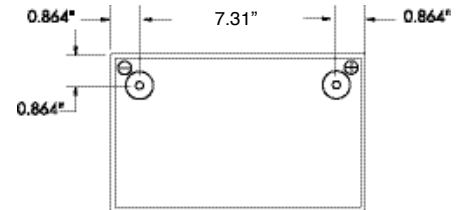
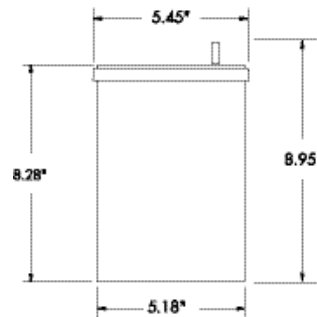
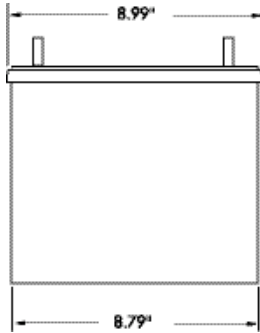


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CONSTANT POWER DISCHARGE RATINGS, WATTS PER BATTERY @ 77°F (25°C) IN MINUTES/HOURS

| End V.P.C. | 5 | 10 | 15 | 20 | 30 | 40 | 45 | 50 | 60 | 90 | 2 | 3 | 4 | 6 | 8 |
|------------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 1.80 | 1776 | 1344 | 1062 | 900 | 672 | 516 | 456 | 420 | 360 | 263 | 211 | 155 | 125 | 87.9 | 68.4 |
| 1.75 | 1992 | 1464 | 1128 | 960 | 714 | 552 | 510 | 456 | 390 | 285 | 229 | 167 | 135 | 95.3 | 74.1 |
| 1.70 | 2142 | 1512 | 1158 | 1002 | 762 | 588 | 552 | 492 | 408 | - | - | - | - | - | - |
| 1.67 | 2208 | 1536 | 1176 | 1032 | 780 | 636 | 582 | 516 | 426 | - | - | - | - | - | - |
| 1.60 | 2328 | 1572 | 1200 | 1062 | 804 | 660 | 600 | 534 | 438 | - | - | - | - | - | - |



KS-7 CABINET

| Battery System | | Dimensions (in /mm) | | | Weight |
|----------------|----------------|---------------------|----------|-----------|------------|
| Volts | Model Number | Width | Depth | Height | lbs/kg |
| 24 | 1KS4-255S-24 | 11.5/392 | 19.0/483 | 15.8/400 | 119/53.9 |
| 48 | 1KS5-455S-48 | 15.0/381 | 25.0/635 | 15.8/400 | 222/100.9 |
| 96 | 1KS6-855S-96 | 16.0/406 | 34.5/876 | 17.8/451 | 429/195.0 |
| 120 | 1KS7-1055S-120 | 16.0/406 | 34.5/876 | 37.3/946 | 593/269.3 |
| 240 | 1CR1-2055S-220 | 24.0/610 | 32.5/826 | 43.0/1092 | 1145/520.5 |
| 360 | 1CR3-3055S-360 | 40.0/1016 | 32.5/826 | 43.0/1092 | 1886/857.0 |
| 480 | 1CR6-4055S-480 | 40.0/1016 | 32.5/826 | 60.0/1524 | 2212/1005 |

Specifications subject to change without notice.

CYCLE LIFE VS. DEPTH OF DISCHARGE

| | |
|---------|-------------|
| 15% DOD | 3000 cycles |
| 25% DOD | 2000 cycles |
| 50% DOD | 1100 cycles |
| 80% DOD | 600 cycles |

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.



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