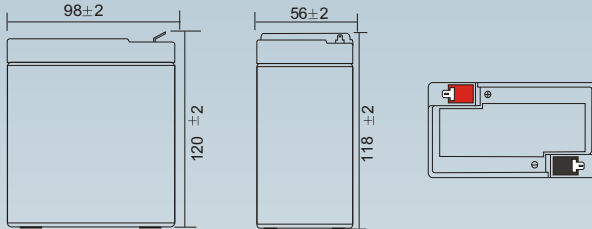


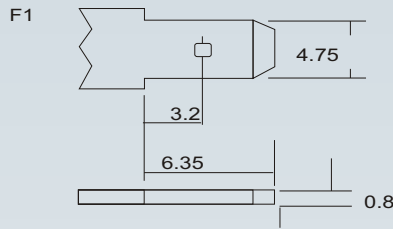
PS Range

(5yr Design Life in Float Service at 20°C)

Dimensions (mm)



Standard terminal (mm)



Physical Specification

| | | |
|-------------------------|------------------------------|---------------|
| Nominal Voltage | | 6V |
| Nominal Capacity (20HR) | | 8.0 AH |
| Dimension | Length | 98 ± 2 mm |
| | Width | 56 ± 2 mm |
| | Container Height | 118 ± 2 mm |
| | Total Height (with terminal) | 120 ± 2 mm |
| Weight | | Approx 1.52kg |
| Standard Terminal | | F1 |

PS-682 6V 8.0AH



Discharge Characteristics (25°C, 77°F)

| | | | | |
|----------------------------------|---------------------|--------|-------------------------|---|
| Rated Capacity | 20hRate(1.80V/cell) | 8.50AH | Cycle | Initial Charging Current Less than 2.0A Voltage 7.20V ~ 7.50V at 25°C (77°F) |
| | 10hRate(1.80V/cell) | 7.91AH | | |
| Capacity Affected by Temperature | 5hRate(1.75V/cell) | 7.25AH | Constant Voltage Charge | Standby |
| | 3hRate(1.75V/cell) | 6.51AH | | |
| | 1hRate(1.65V/cell) | 5.34AH | | |
| | 40°C (104°F) | 103% | | |
| | 25°C (77°F) | 100% | | Recommended Charge Current less than 2.0A Voltage 6.75V ~ 6.90V at 25°C (77°F) |
| | 0°C (32°F) | 86% | | |

Internal Resistance mΩ

14.5mΩ

Constant Current Discharge (Amperes) at 25 °C (77°F)

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|-------|-------|
| 1.85V/cell | 16.2 | 12.4 | 10.3 | 8.90 | 6.88 | 5.07 | 4.27 | 2.53 | 1.98 | 1.61 | 1.31 | 1.14 | 0.918 | 0.767 | 0.421 |
| 1.80V/cell | 21.7 | 15.9 | 12.4 | 10.5 | 8.12 | 5.90 | 4.79 | 2.76 | 2.13 | 1.72 | 1.41 | 1.22 | 0.973 | 0.791 | 0.425 |
| 1.75V/cell | 24.5 | 17.5 | 13.6 | 11.3 | 8.43 | 6.12 | 5.01 | 2.86 | 2.17 | 1.76 | 1.45 | 1.25 | 0.990 | 0.812 | 0.429 |
| 1.70V/cell | 27.0 | 19.0 | 14.5 | 11.9 | 8.78 | 6.36 | 5.17 | 2.93 | 2.23 | 1.80 | 1.48 | 1.28 | 1.004 | 0.828 | 0.437 |
| 1.65V/cell | 29.7 | 20.5 | 15.4 | 12.6 | 9.26 | 6.52 | 5.29 | 2.98 | 2.32 | 1.86 | 1.52 | 1.31 | 1.020 | 0.845 | 0.443 |
| 1.60V/cell | 32.8 | 22.3 | 16.5 | 13.5 | 9.78 | 6.80 | 5.34 | 3.10 | 2.39 | 1.92 | 1.57 | 1.34 | 1.030 | 0.854 | 0.445 |

Constant Power Discharge (Watts/cell) at 25°C (77°F)

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|-------|
| 1.85V/cell | 29.6 | 23.0 | 19.2 | 16.8 | 13.1 | 9.75 | 8.25 | 4.91 | 3.86 | 3.14 | 2.57 | 2.24 | 1.81 | 1.52 | 0.834 |
| 1.80V/cell | 39.3 | 29.0 | 22.9 | 19.5 | 15.2 | 11.2 | 9.19 | 5.32 | 4.13 | 3.34 | 2.75 | 2.39 | 1.92 | 1.56 | 0.841 |
| 1.75V/cell | 43.4 | 31.3 | 24.7 | 20.8 | 15.7 | 11.6 | 9.57 | 5.50 | 4.18 | 3.40 | 2.81 | 2.45 | 1.94 | 1.60 | 0.848 |
| 1.70V/cell | 46.4 | 33.4 | 26.0 | 21.7 | 16.2 | 12.0 | 9.84 | 5.62 | 4.29 | 3.49 | 2.88 | 2.49 | 1.97 | 1.63 | 0.863 |
| 1.65V/cell | 50.5 | 35.7 | 27.4 | 22.9 | 17.0 | 12.2 | 9.99 | 5.67 | 4.46 | 3.59 | 2.95 | 2.54 | 2.00 | 1.66 | 0.873 |
| 1.60V/cell | 54.4 | 37.9 | 28.9 | 24.1 | 17.8 | 12.6 | 10.0 | 5.89 | 4.57 | 3.69 | 3.03 | 2.59 | 2.01 | 1.68 | 0.877 |



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