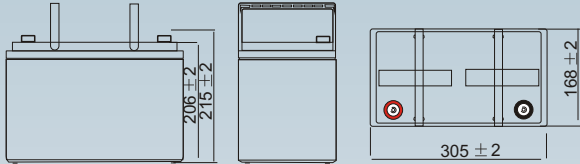


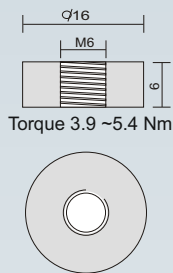
## PS Range (VRLA 10yr Life)

### Dimensions (mm)



### Standard terminal (mm)

#### T6 Threaded Insert 6mm Stud



### Physical Specification

|                         |                              |               |
|-------------------------|------------------------------|---------------|
| Nominal Voltage         |                              | 12V           |
| Nominal Capacity (20HR) |                              | 100.0 AH      |
| Dimension               | Length                       | 305 ± 2 mm    |
|                         | Width                        | 168 ± 2 mm    |
|                         | Container Height             | 207 ± 2 mm    |
|                         | Total Height (with terminal) | 215 ± 2 mm    |
| Weight                  |                              | Approx 31.5kg |
| Standard Terminal       |                              | T6            |

## PS-121000 12V 100AH



### Discharge Characteristics (25°C, 77°F)

| Rated Capacity                   | 20hr Rate(1.80V/cell)<br>10hr Rate(1.80V/cell)<br>5hr Rate(1.75V/cell)<br>3hr Rate(1.75V/cell)<br>1hr Rate(1.60V/cell) | 100.00AH<br>95.20AH<br>83.00AH<br>73.50AH<br>57.90AH | Cycle                   | Initial Charging Current<br>Less than 25.0A<br>Voltage 14.40V ~ 15.0V<br>at 25°C (77°F)       |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------|
| Capacity Affected by Temperature | 40°C (104°F)<br>25°C (77°F)<br>0°C (32°F)                                                                              | 103%<br>100%<br>86%                                  | Constant Voltage Charge | Standby Recommended Charge<br>Current less than 25.0A<br>Voltage 13.5V ~ 13.8V at 25°C (77°F) |

### Internal Resistance mΩ

Approx 4.9 mΩ

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

| F.V/Time   | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 108.3 | 90.0  | 69.9  | 55.4  | 44.8 | 29.2 | 22.0 | 18.0 | 15.3 | 10.7 | 9.12 | 4.85 |
| 1.80V/cell | 120.1 | 99.0  | 75.4  | 58.8  | 47.2 | 31.0 | 23.2 | 18.9 | 16.0 | 11.2 | 9.52 | 5.00 |
| 1.75V/cell | 133.2 | 108.4 | 81.1  | 62.9  | 50.9 | 32.5 | 24.5 | 19.8 | 16.6 | 11.5 | 9.73 | 5.10 |
| 1.70V/cell | 145.6 | 118.4 | 89.1  | 65.7  | 53.8 | 34.3 | 25.7 | 20.6 | 17.3 | 11.9 | 10.0 | 5.20 |
| 1.65V/cell | 154.1 | 125.0 | 93.9  | 69.7  | 55.7 | 35.5 | 26.7 | 21.3 | 17.9 | 12.3 | 10.3 | 5.33 |
| 1.60V/cell | 168.9 | 135.7 | 99.8  | 72.3  | 57.9 | 37.0 | 27.6 | 22.0 | 18.5 | 12.6 | 10.5 | 5.45 |

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

| F.V/Time   | 15min | 20min | 30min | 45min | 1h    | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.85V/cell | 203.2 | 170.6 | 133.9 | 107.0 | 87.1  | 57.0 | 43.1 | 35.4 | 30.1 | 21.1 | 18.1 | 9.65 |
| 1.80V/cell | 222.3 | 184.9 | 142.3 | 112.2 | 91.1  | 60.2 | 45.2 | 37.0 | 31.4 | 22.1 | 18.9 | 9.94 |
| 1.75V/cell | 243.6 | 200.6 | 151.8 | 119.4 | 97.8  | 62.8 | 47.6 | 38.5 | 32.5 | 22.7 | 19.3 | 10.1 |
| 1.70V/cell | 262.4 | 217.4 | 165.9 | 124.2 | 103.0 | 66.1 | 49.8 | 40.0 | 33.7 | 23.5 | 19.9 | 10.3 |
| 1.65V/cell | 276.8 | 228.6 | 174.0 | 131.3 | 106.2 | 68.1 | 51.5 | 41.3 | 34.9 | 24.1 | 20.3 | 10.6 |
| 1.60V/cell | 297.3 | 244.6 | 183.0 | 134.8 | 109.4 | 70.4 | 52.9 | 42.4 | 35.9 | 24.7 | 20.7 | 10.8 |



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