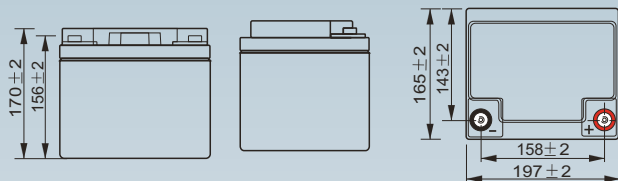


## PS Range

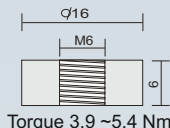
(10yr Design Life in Float Service at 20°C)

### Dimensions (mm)



### Standard terminal (mm)

T6 Threaded Insert 6mm Stud



### Physical Specification

|                   |                    |               |
|-------------------|--------------------|---------------|
| Nominal Voltage   |                    | 12V           |
| Nominal Capacity  |                    | 45.0 AH       |
| Dimension         | Length             | 197 ± 2 mm    |
|                   | Width              | 165 ± 2 mm    |
|                   | Height To terminal | 156 ± 2 mm    |
|                   | Container Height   | 170 ± 2 mm    |
| Weight            |                    | Approx 14.5kg |
| Standard Terminal |                    | T6            |

## PS-12450 12V 45AH

IMAGE COMING SOON

### 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) | 45.0AH<br>42.0AH<br>36.6AH<br>32.7AH<br>26.0AH | Constant Voltage Charge | Cycle   | Initial Charging Current<br>Less than 11.25A<br>Voltage 14.4V ~ 15.0V<br>at 25°C (77°F) |
|                                  |                                                                                                                        |                                                |                         |         |                                                                                         |
| Capacity Affected by Temperature | 40°C (104°F)                                                                                                           | 103%                                           | Constant Voltage Charge | Standby | Recommended Charge<br>Current less than 12.02A<br>Voltage 13.5V ~ 13.8V at 15°C (77°F)  |
|                                  | 25°C (77°F)<br>0°C (32°F)                                                                                              | 100%<br>86%                                    |                         |         |                                                                                         |

### Internal Resistance mΩ

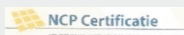
Approx 9.0 mΩ

### Constant Current Discharge (Amperes) at 20°C(68°F)

| F.V/Time   | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 49.1  | 41.3  | 36.7  | 30.4  | 23.5  | 20.1 | 13.0 | 9.77 | 8.01 | 6.74 | 5.90 | 4.73 | 4.07 | 2.17 |
| 1.80V/cell | 56.2  | 46.4  | 40.5  | 33.0  | 25.3  | 21.2 | 14.0 | 10.5 | 8.51 | 7.14 | 6.25 | 4.98 | 4.20 | 2.25 |
| 1.75V/cell | 63.9  | 52.3  | 44.8  | 35.9  | 27.6  | 23.1 | 14.5 | 10.9 | 8.80 | 7.31 | 6.45 | 5.15 | 4.31 | 2.30 |
| 1.70V/cell | 72.1  | 58.0  | 49.5  | 39.2  | 29.7  | 24.4 | 15.3 | 11.5 | 9.20 | 7.73 | 6.76 | 5.37 | 4.48 | 2.36 |
| 1.65V/cell | 77.5  | 62.1  | 52.6  | 41.4  | 31.5  | 25.3 | 15.9 | 12.0 | 9.56 | 7.97 | 6.99 | 5.55 | 4.60 | 2.44 |
| 1.60V/cell | 85.2  | 68.1  | 57.1  | 44.1  | 32.7  | 26.0 | 16.3 | 12.3 | 9.77 | 8.17 | 7.14 | 5.64 | 4.70 | 2.48 |

### Constant Power Discharge (Watts) at 20°C(68°F)

| F.V/Time   | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 91.8  | 77.9  | 69.8  | 58.6  | 45.6  | 39.1 | 25.5 | 19.2 | 15.8 | 13.3 | 11.7 | 9.44 | 8.14 | 4.34 |
| 1.80V/cell | 103.8 | 86.4  | 76.1  | 62.6  | 48.8  | 41.1 | 27.2 | 20.6 | 16.7 | 14.1 | 12.4 | 9.91 | 8.38 | 4.49 |
| 1.75V/cell | 116.0 | 96.2  | 83.3  | 67.5  | 52.7  | 44.6 | 28.2 | 21.3 | 17.2 | 14.4 | 12.7 | 10.2 | 8.60 | 4.60 |
| 1.70V/cell | 128.1 | 105.2 | 91.3  | 73.3  | 56.6  | 47.0 | 29.7 | 22.4 | 18.0 | 15.2 | 13.3 | 10.6 | 8.92 | 4.71 |
| 1.65V/cell | 136.3 | 111.8 | 96.4  | 76.7  | 59.3  | 48.3 | 30.6 | 23.2 | 18.6 | 15.6 | 13.7 | 11.0 | 9.16 | 4.85 |
| 1.60V/cell | 146.5 | 120.4 | 103.6 | 81.3  | 61.3  | 49.5 | 31.2 | 23.7 | 19.0 | 15.9 | 14.0 | 11.1 | 9.33 | 4.92 |



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