

BPC POWERSTOR BATTERY RANGE

PSLW 1100 INDUSTRIAL VRLA SEALED LEAD BATTERY

GENERAL FEATURES

- Multi-alloy grid, with high corrosion resistant performance
- Excellent charge acceptance ability
- Exceptional deep cycle discharge capability
- Strong high and low temperature performance
- Long cycle and battery life – 10 years design life
- Flame Retardant UL-94 (optional)

TECHNICAL SPECIFICATION

| | | |
|----------------------------|---|-------|
| NOMINAL VOLTAGE | 12V | |
| NOMINAL CAPACITY | 40Ah | |
| DIMENSIONS | WIDTH | 165mm |
| | DEPTH | 197mm |
| | HEIGHT | 172mm |
| WEIGHT | 13.2kgs | |
| INTERNAL RESISTANCE @ 25°C | 12.2 mOhm | |
| CHARGE | Max. 10A ; Recom. 4.0A | |
| MAX. DISCHARGE CURRENT | 480A (5 secs) | |
| SELF DISCHARGE | Capacity will decline 3% each month at 25°C | |

| Operating Temperature °C | Recommended Applied Float Voltage VPC |
|--------------------------|---------------------------------------|
| 10 – 14 | 2.30 – 2.33 |
| 15 – 19 | 2.27 – 2.30 |
| 20 – 24 | 2.27 – 2.30 |
| 25 – 30 | 2.25 – 2.27 |

Constant Current Discharge Characteristics (Amps @ 25°C)

| | 5m | 10m | 15m | 30m | 45m | 1hr | 1.5hr | 2hr | 3hr | 5hr | 8hr | 10hr | 20hr |
|-------|-----|------|------|------|------|------|-------|------|------|------|------|------|------|
| 1.60V | 141 | 108 | 75.7 | 46.1 | 36.5 | 26.9 | 21.2 | 15.4 | 11.2 | 7.53 | 4.94 | 4.16 | 2.18 |
| 1.65V | 137 | 105 | 73.4 | 45.3 | 36.1 | 26.8 | 21.1 | 15.4 | 11.1 | 7.45 | 4.90 | 4.12 | 2.17 |
| 1.70V | 131 | 102 | 71.9 | 44.5 | 35.6 | 26.6 | 20.9 | 15.2 | 10.9 | 7.37 | 4.86 | 4.08 | 2.16 |
| 1.75V | 121 | 95.3 | 69.5 | 44.1 | 35.2 | 26.2 | 20.6 | 15.0 | 10.8 | 7.29 | 4.82 | 4.04 | 2.15 |
| 1.80V | 108 | 86.4 | 64.8 | 42.2 | 33.9 | 25.5 | 20.1 | 14.7 | 10.7 | 7.10 | 4.78 | 4.00 | 2.14 |

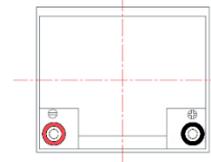
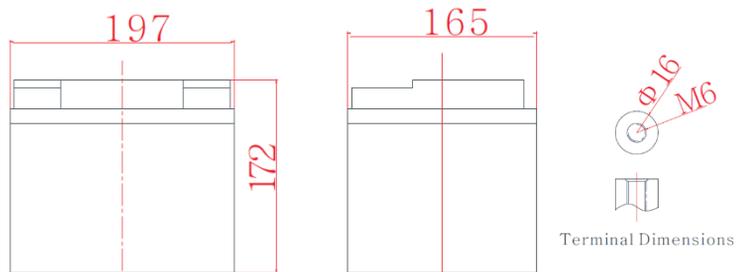
Constant Power Discharge Characteristics (Watts/Cell @ 25°C)

| | 5m | 10m | 15m | 30m | 45m | 1hr | 1.5hr | 2hr | 3hr | 5hr | 8hr | 10hr | 20hr |
|-------|-------|-------|-----|------|------|------|-------|-------|------|-------|------|------|------|
| 1.60V | 236 | 185 | 133 | 83.3 | 67.1 | 50.9 | 40.1 | 29.2 | 21.3 | 14.3 | 9.60 | 8.00 | 4.32 |
| 1.65V | 227 | 179 | 131 | 82.6 | 66.6 | 50.5 | 39.8 | 29.1 | 21.1 | 14.2 | 9.52 | 7.92 | 4.30 |
| 1.67V | 226.5 | 178.5 | 130 | 82.6 | 66.5 | 50.3 | 39.7 | 29.05 | 21.0 | 14.15 | 9.50 | 7.88 | 4.29 |
| 1.70V | 226 | 178 | 129 | 82.6 | 66.4 | 50.1 | 39.6 | 29.0 | 20.9 | 14.1 | 9.48 | 7.84 | 4.28 |
| 1.75V | 211 | 170 | 129 | 82.2 | 66.0 | 49.7 | 39.3 | 28.9 | 20.8 | 14.0 | 9.41 | 7.76 | 4.26 |
| 1.80V | 194 | 158 | 122 | 80.2 | 64.8 | 49.4 | 39.1 | 28.8 | 20.7 | 13.8 | 9.33 | 7.68 | 4.24 |

*Product specifications are subject to change without further notice. Please contact the Manufacturer to obtain the latest information.



*Product may differ from image



Recommended Torque Setting: 3.9 – 5.4Nm

Recommended Distance Between Batteries: 10mm

Standards:

Internal resistance: according to EN IEC 60896 21
 Short circuit current: according to EN IEC 60896 22
 EUROBAT Classification: Long life 10 years

| | 43Ah | 20 Hour Rate (2.15A to 10.5V) |
|-----------------------|----------------|-------------------------------|
| RATED CAPACITY | 40.4Ah | 10 Hour Rate (4.04A to 10.5V) |
| | 36.45Ah | 5 Hour Rate (7.29A to 10.5V) |



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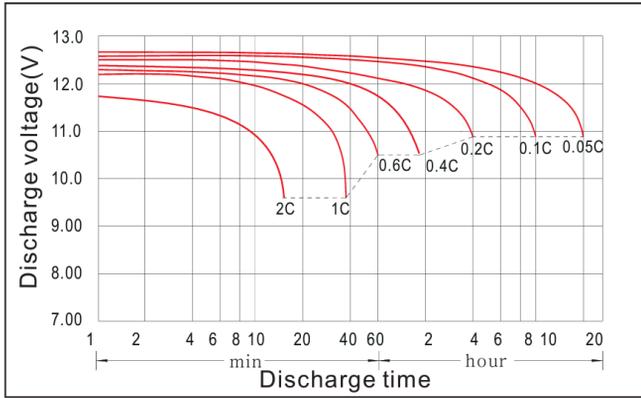
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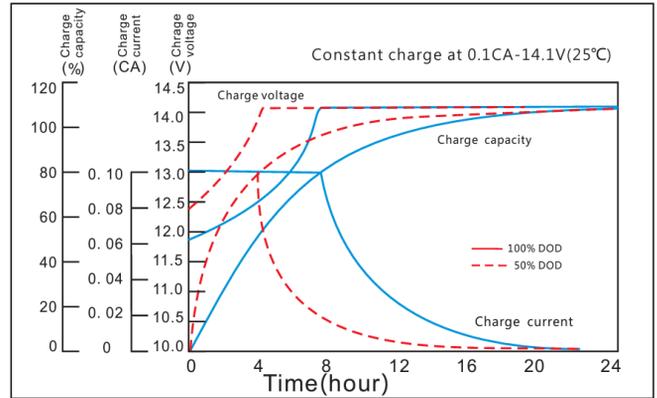
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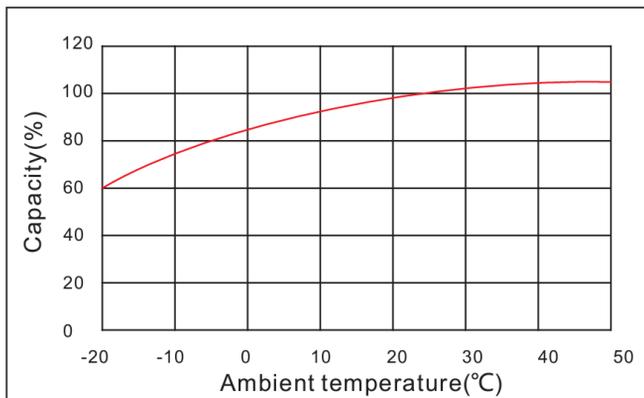
Discharge characteristic



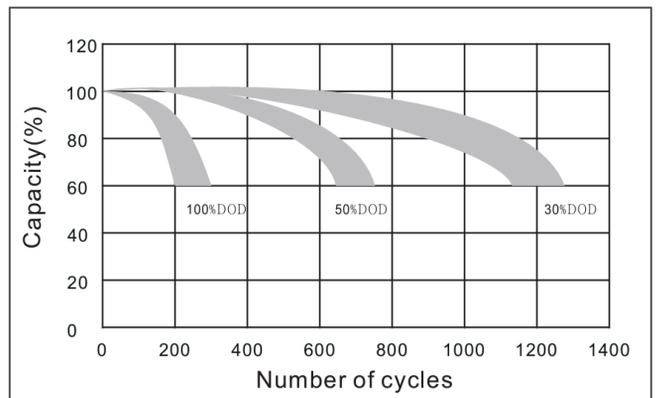
Charging characteristic



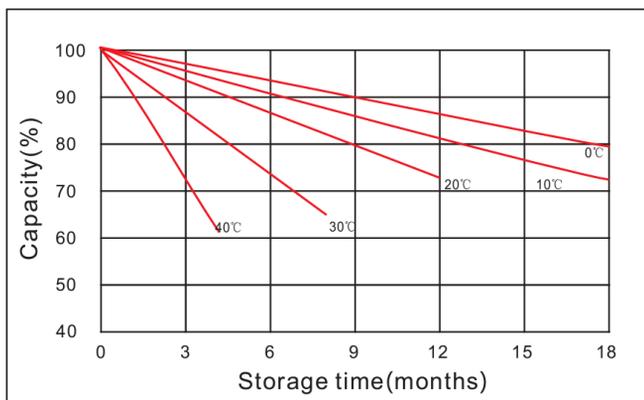
The effect of temperature on capacity



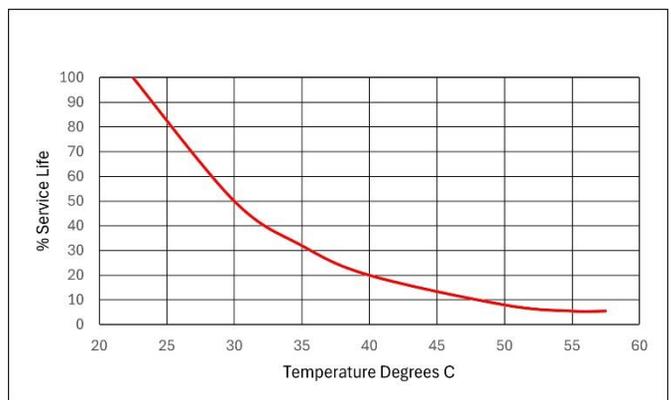
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on service life



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