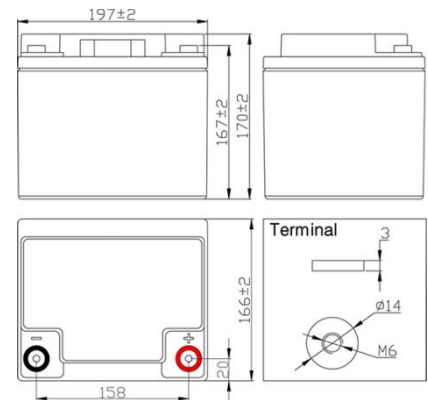


Sealed Acid Batteries AGM/VRLA (12V 40Ah)

Model: PL4012

epcom[®]
POWER ⚡ LINE



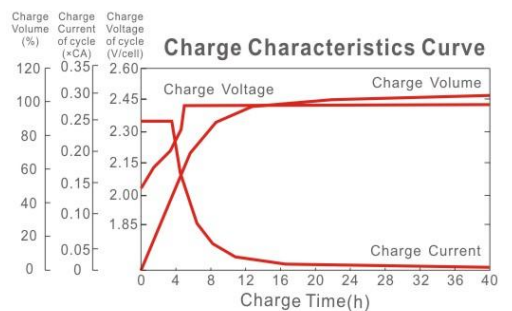
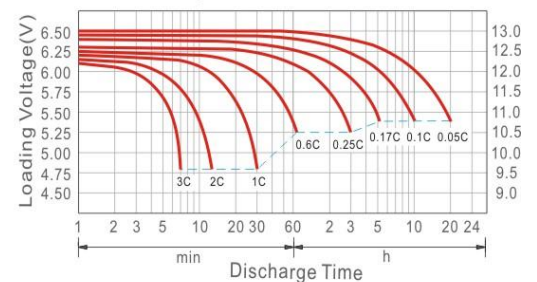
Specifications

| | | |
|-----------------------------------|--------------------|---------------------|
| Nominal Voltage | 12 V | |
| Rated Capacity 77°F (25°C) (20HR) | 40 Ah | |
| Dimensions (mm / inch) | Length | 7.76 inches (197mm) |
| | Width | 6.54 inches (166mm) |
| | Height | 6.69 inches (170mm) |
| | Total Height | 6.69 inches (170mm) |
| Approx. Weight | 27.6 lbs. (12.5kg) | |
| Terminal | M6 | |

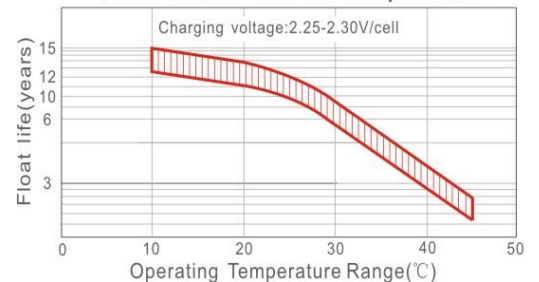
Characteristic

| | | |
|---|-------------------------------------|---|
| Capacity 77°F (25°C) | 20h rate (2.144A to 10.8 volts) | 42.8 Ah |
| | 10h rate (4.040A to 10.8 volts) | 40.4 Ah |
| | 5h rate (6.916A to 10.8 volts) | 34.5 Ah |
| Internal Resistance | Full Charged Battery 77°F (25°C) | Approx. 9.5mΩ |
| | 104°F (40°C) | 107 % |
| Temperature dependence of capacity (20HR) | 77°F (25°C) | 100 % |
| | 32°F (0°C) | 76 % |
| | 4°F (-20°C) | 46 % |
| Self-Discharge 68°F (20°C) (Capacity after) | 3 months storage | 90 % |
| | 6 months storage | 80 % |
| | 12 months storage | 60 % |
| Max. Discharge Current, 77°F (25° C) | | 320A (5s) |
| Floating design life, 77°F (25° C) | | 10 years |
| Constant Voltage Charge, 77°F (25°C) | Cycle | 14.4~14.7V (-24mV/°C) max. current: 12 A |
| | Float | 13.6-13.8V (-18mV/°C) |

Discharge Characteristics Curve



Float Service Life VS Temperature



Constant Current Discharge Characteristics (A, 25°)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2H | 3H | 5H | 8H | 10H | 20H |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V/cell | 134.0 | 86.00 | 70.00 | 45.00 | 26.00 | 15.54 | 10.75 | 7.212 | 4.968 | 4.200 | 2.304 |
| 1.70V/cel | 118.0 | 78.00 | 67.00 | 43.80 | 25.64 | 15.34 | 10.62 | 7.128 | 4.888 | 4.120 | 2.224 |
| 1.75V/cell | 106.0 | 72.00 | 63.40 | 42.60 | 25.32 | 15.14 | 10.50 | 7.020 | 4.840 | 4.080 | 2.184 |
| 1.80V/cell | 92.00 | 65.20 | 59.40 | 40.96 | 24.80 | 14.93 | 10.30 | 6.916 | 4.768 | 4.040 | 2.144 |

Constant Wattage Discharge Characteristics (Watt, 25°)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2H | 3H | 5H | 8H | 10H | 20H |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V/cell | 231.2 | 153.4 | 127.2 | 84.00 | 49.83 | 30.30 | 21.32 | 14.34 | 9.886 | 8.365 | 4.604 |
| 1.70V/cel | 208.5 | 141.7 | 123.4 | 82.49 | 49.36 | 30.04 | 21.12 | 14.21 | 9.752 | 8.226 | 4.448 |
| 1.75V/cell | 189.9 | 132.6 | 117.8 | 80.94 | 48.95 | 29.78 | 20.93 | 14.03 | 9.680 | 8.160 | 4.368 |
| 1.80V/cell | 167.1 | 121.7 | 111.4 | 78.51 | 48.15 | 29.62 | 20.58 | 13.83 | 9.536 | 8.080 | 4.288 |