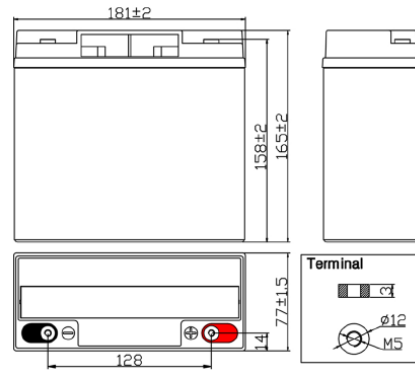


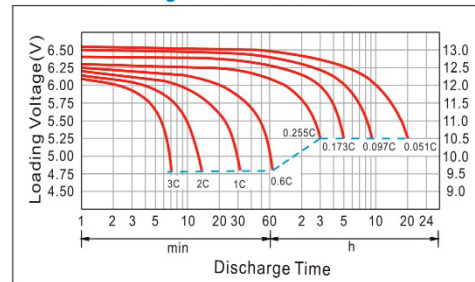
PQC1220ST10 (12V 20Ah)



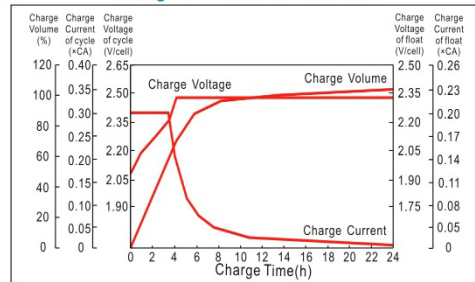
| Specifications | | PQC1220ST10 |
|-------------------------------|--------------|-------------|
| Nominal Voltage | | 12V |
| Rated Capacity (25°C), (20HR) | | 20Ah |
| Dimensions (mm) | Length | 181 |
| | Width | 77 |
| | Height | 165 |
| | Total Height | 165 |
| Approx. Weight (kg) | | 5.9 kg |
| Terminal | | T10 |

| Characteristics | | |
|--|---|---|
| Capacity (25°C) | 20HR (1.030A) | 20.6Ah |
| | 10HR (1.968A) | 19.6Ah |
| | 5HR (3.518A) | 17.5Ah |
| | 1HR (13.00A) | 13.0Ah |
| | 1HR (38.50A) | 9.62Ah |
| Impedance | Fully charged battery (25°C) | Approx. 12mΩ |
| | Temperature dependence of capacity (20HR) | |
| | 40°C | 107% |
| | 25°C | 100% |
| | 0°C | 76% |
| | -15°C | 56% |
| Self-discharge (20°C) (remaining capacity) | 3 months | 90% |
| | 6 months | 80% |
| | 12 months | 60% |
| Expected cycle life (@ DOD 80%) | | 450 |
| Service life acc. to EUROBAT (25°C) | | 3-5 years |
| Constant voltage charge (25°C) | Cycle | 14.7~15.0V(-24mV/°C) max. current: 0.3CA |
| | Float | 13.5~13.8V(-18mV/°C) max. current: 0.2CA |

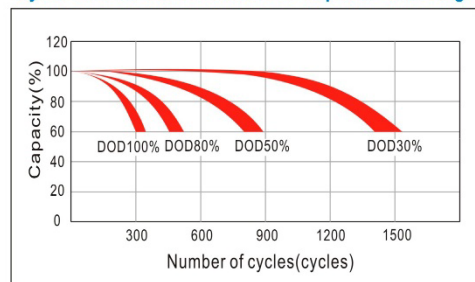
Discharge Characteristics Curve



Charge Characteristics Curve



Cycle service life in relation to depth of discharge



| Constant Current Discharge Characteristics (A), (25°C) | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2H | 3H | 5H | 8H | 10H | 20H |
| 1.60V/cell | 78.90 | 51.70 | 38.50 | 20.50 | 13.00 | 7.324 | 5.334 | 3.598 | 2.382 | 2.040 | 1.092 |
| 1.70V/cell | 71.60 | 47.90 | 36.30 | 19.90 | 12.71 | 7.210 | 5.202 | 3.546 | 2.346 | 1.988 | 1.052 |
| 1.75V/cell | 64.30 | 44.90 | 34.30 | 19.30 | 12.55 | 7.150 | 5.150 | 3.518 | 2.326 | 1.968 | 1.030 |
| 1.80V/cell | 57.70 | 42.00 | 32.30 | 18.70 | 12.37 | 7.090 | 5.090 | 3.478 | 2.294 | 1.938 | 0.988 |

| Constant Wattage Discharge Characteristics (W/cell), (25°C) | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2H | 3H | 5H | 8H | 10H | 20H |
| 1.60V/cell | 142.7 | 94.35 | 70.90 | 39.12 | 25.78 | 13.07 | 10.63 | 7.178 | 4.752 | 4.073 | 2.184 |
| 1.70V/cell | 131.9 | 89.01 | 68.06 | 38.31 | 25.31 | 14.36 | 10.39 | 7.080 | 4.684 | 3.976 | 2.108 |
| 1.75V/cell | 120.0 | 84.94 | 64.88 | 37.47 | 25.02 | 14.25 | 10.29 | 7.030 | 4.648 | 3.939 | 2.069 |
| 1.80V/cell | 108.7 | 80.15 | 61.64 | 36.62 | 24.68 | 14.14 | 10.18 | 6.956 | 4.588 | 3.879 | 1.984 |