


NP1223M (VRLA AGM BATTERY)

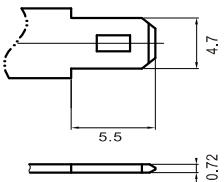
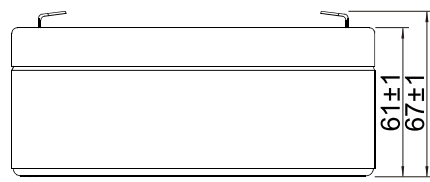
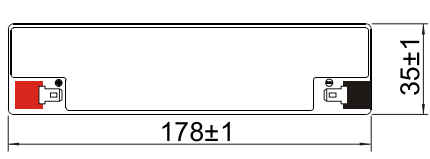
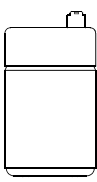
12V 2.3Ah



Neutron Power NP series are designed with AGM (Absorbent Glass Mat) technology and for general-purpose applications, such as UPS, telecom, and electrical utilities. These batteries are comply to most popular international standards, such as IEC60896-21/22, BS6290-4, Eurobat Guide. The battery container and cover are available both in V0 class flame retardant ABS or HBO ABS plastics too.

Neutron Power batteries meet the standards JIS, DIN, IEC60896-21/22 & BS6290-4. We have obtained ISO9001 & ISO14001 certification, UL approval (MH46127) and CE approval for all types of batteries. All these render our batteries to be compatible with requirements of world-level equipments.

| Performance Characteristics | | |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------|
| General Information | Length | 178mm (7.01 inch) |
| | Width | 35mm (1.38 inch) |
| | Height | 61mm (2.40 inch) |
| | Total Height | 67mm (2.64 inch) |
| | Approx Weight | 0.92 Kg |
| | Nominal Voltage | 12 Volt |
| | Number of Cells | 6 |
| | Nominal Capacity (20 hour rate) | 2.3 Ah |
| | Design float life expectancy under normal operation conditions at 25°C | 3 ~ 5 Years |
| | Terminal | F1 |
| | Casing Material | Standard (ABS) |
| Optional - V0 Class Flame Retardant (ABS) | | |
| Nominal Capacity 77°F (25°C) | 20 hour rate (0.115A, 10.5V) | 2.3 AH |
| | 10 hour rate (0.22A, 10.5V) | 2.2 AH |
| | 5 hour rate (0.41A, 10.5V) | 2.05 AH |
| | 1 hour rate (1.38A, 10.5V) | 1.38 AH |
| Internal Resistance | Fully Charged Battery 77°F (25°C) ≤ 65 mOhms | |
| Self Discharge | 3% of capacity declined per month at 20°C (average) | |
| Operating Temperature Range | Discharge | -20 ~ 60°C |
| | Charge | -10 ~ 60°C |
| | Storage | -20 ~ 60°C |
| Max. Discharge 77°F (25°C) | 34.5A (5s) | |
| Short Circuit Current | 115A | |
| Charge Methods | Constant Voltage Charge 77°F (25°C) | |
| | Cycle use 2.40 - 2.45VPC | |
| | Standby use 2.20 - 2.30VPC | |
| | Temperature compensation -20mV/°C | |
| | Maximum charging current 0.69A | |
| Battery Certification |  MH46127 UL CERTIFIED - MH46127 | |

| Outer Dimension | | | |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Terminal F1 | | | |
|  |  |  |  |

* The above characteristics data are average values obtained within three charge/discharge cycles not the minimum value. Neutron Power reserves the rights update the data information without prior notice.

| Constant Current Discharge Data (Amperes at 25°C) | | | | | | | | | |
|---------------------------------------------------|------|-------|-------|-------|------|------|-------|-------|-------|
| F.V/Time | 5Min | 10Min | 15Min | 30Min | 1Hr | 3Hr | 5Hr | 10Hr | 20Hr |
| 1.60V/Cell | 8.56 | 5.89 | 4.27 | 2.72 | 1.43 | 0.63 | 0.430 | 0.230 | 0.120 |
| 1.67V/Cell | 7.90 | 5.59 | 4.06 | 2.61 | 1.42 | 0.62 | 0.426 | 0.228 | 0.118 |
| 1.70V/Cell | 7.18 | 5.16 | 3.74 | 2.47 | 1.40 | 0.61 | 0.421 | 0.225 | 0.117 |
| 1.75V/Cell | 6.59 | 4.86 | 3.53 | 2.37 | 1.38 | 0.60 | 0.414 | 0.221 | 0.115 |
| 1.80V/Cell | 6.46 | 4.77 | 3.46 | 2.33 | 1.35 | 0.59 | 0.406 | 0.217 | 0.113 |

| Constant Power Discharge Data (Watts per cell at 25°C) | | | | | | | | | |
|--------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|------|
| F.V/Time | 5Min | 10Min | 15Min | 30Min | 1Hr | 2Hr | 3Hr | 4Hr | 5Hr |
| 1.60V/Cell | 16.70 | 11.48 | 8.32 | 5.30 | 2.79 | 1.60 | 1.22 | 0.98 | 0.84 |
| 1.67V/Cell | 15.41 | 10.91 | 7.91 | 5.08 | 2.76 | 1.58 | 1.21 | 0.97 | 0.83 |
| 1.70V/Cell | 14.00 | 10.05 | 7.29 | 4.81 | 2.73 | 1.57 | 1.20 | 0.96 | 0.82 |
| 1.75V/Cell | 12.84 | 9.49 | 6.88 | 4.63 | 2.69 | 1.54 | 1.18 | 0.94 | 0.81 |
| 1.80V/Cell | 12.61 | 9.31 | 6.75 | 4.54 | 2.64 | 1.51 | 1.16 | 0.92 | 0.79 |

