

# NP-Series - Valve Regulated Lead Acid Battery

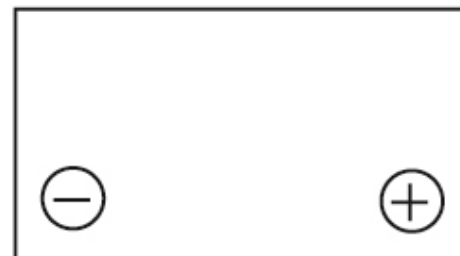
## NP17-12I

| SPECIFICATIONS                                                                                                        |                |            |
|-----------------------------------------------------------------------------------------------------------------------|----------------|------------|
| Nominal voltage                                                                                                       | 12             | V          |
| 20-hr rate Capacity to 1.75VPC at 20°C                                                                                | 17             | Ah         |
| 10-hr rate Capacity to 1.75VPC at 20°C                                                                                | 15.7           | Ah         |
| DIMENSIONS                                                                                                            |                |            |
| Length                                                                                                                | 181 (±1)       | mm         |
| Width                                                                                                                 | 76 (±1)        | mm         |
| Height                                                                                                                | 167 (±2)       | mm         |
| (height over terminals)                                                                                               | N/A            | mm         |
| Mass (typical)                                                                                                        | 6.1            | kg         |
| TERMINAL TYPE                                                                                                         |                |            |
| Female threaded terminal                                                                                              | M5             |            |
| Torque                                                                                                                | 2.45           | Nm         |
| OPERATING TEMPERATURE RANGE                                                                                           |                |            |
| Storage                                                                                                               | -20°C to +60°C |            |
| Charge                                                                                                                | -15°C to +50°C |            |
| Discharge                                                                                                             | -20°C to +60°C |            |
| STORAGE                                                                                                               |                |            |
| Capacity loss per month at 20°C (approx)                                                                              | 3              | %          |
| CASE MATERIAL                                                                                                         |                |            |
| Standard Option                                                                                                       | ABS (UL94:HB)  |            |
| Flame retardant option (FR)                                                                                           | ABS (UL94:V0)  |            |
| CHARGE VOLTAGE                                                                                                        |                |            |
| Float charge voltage at 20°C                                                                                          | 13.65 (±1%)    | V          |
|                                                                                                                       | 2.275 (±1%)    | V/cell     |
| Float Charge voltage temperature correction factor<br>(for variations from the standard 20°C)                         | -3             | mV/cell/°C |
| Cyclic (or Boost) charge at 20°C                                                                                      | 14.5 (±3%)     | V          |
|                                                                                                                       | 2.42 (±3%)     | V/cell     |
| Cyclic Charge voltage temperature correction factor<br>(for variations from the standard 20°C)                        | -4             | mV/cell/°C |
| CHARGE CURRENT                                                                                                        |                |            |
| Float charge current limit                                                                                            | No limit       | A          |
| Cyclic (or Boost) charge current limit                                                                                | 4.25           | A          |
| MAXIMUM DISCHARGE CURRENT                                                                                             |                |            |
| 1 second                                                                                                              | 510            | A          |
| 1 minute                                                                                                              | 48             | A          |
| SHORT-CIRCUIT CURRENT & INTERNAL RESISTANCE<br>(according to EN IEC 60896-21)                                         |                |            |
| Internal resistance                                                                                                   | 34.47          | mΩ         |
| Short-Circuit current                                                                                                 | 421            | A          |
| IMPEDANCE                                                                                                             |                |            |
| Measured at 1 kHz                                                                                                     | 18             | mΩ         |
| PERFORMANCE & CHARACTERISTICS                                                                                         |                |            |
| Refer to the technical manual                                                                                         | NP             |            |
| DESIGN LIFE                                                                                                           |                |            |
| EUROBAT Classification: Standard Commercial                                                                           | 3 to 5         | years      |
| Yuasa design life @ 20°C                                                                                              | up to 5        | years      |
| SAFETY                                                                                                                |                |            |
| Installation                                                                                                          |                |            |
| Can be installed and operated in any orientation except permanently inverted                                          |                |            |
| Handles                                                                                                               |                |            |
| Batteries must not be suspended by their handles (where fitted)                                                       |                |            |
| Vent valves                                                                                                           |                |            |
| Each cell is fitted with a low pressure release valve to allow gasses to escape and then reseal.                      |                |            |
| Gas Release                                                                                                           |                |            |
| VRLA Batteries release hydrogen gas which can form explosive mixtures in air. Do not place inside a sealed container  |                |            |
| Recycling                                                                                                             |                |            |
| YUASA's VRLA batteries must be recycled at the end of life in accordance with local and national laws and regulations |                |            |

## Data Sheet



### LAYOUT



### 3RD PARTY CERTIFICATIONS

ISO 9001 - Quality Management Systems  
 ISO 14001 - Environmental Management Systems  
 EN 18001 - OHSAS Management Systems  
 UNDERWRITERS LABORATORIES Inc.  
 VdS (Germany) - VdS No: G147022



### STANDARDS

IEC61056



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