

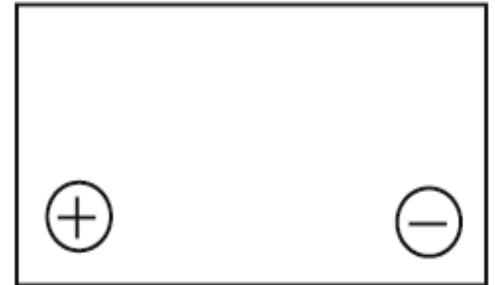
## Yucel-Series - Valve Regulated Lead Acid Battery

### Y5-12L

| SPECIFICATIONS                                                                                                        |                |                |
|-----------------------------------------------------------------------------------------------------------------------|----------------|----------------|
| Nominal voltage                                                                                                       | 12             | V              |
| 20-hr rate Capacity to 1.75VPC at 20°C                                                                                | 5              | Ah             |
| 10-hr rate Capacity to 1.75VPC at 20°C                                                                                | 4.63           | Ah             |
| DIMENSIONS                                                                                                            |                |                |
| Length                                                                                                                | 90 (±1)        | mm             |
| Width                                                                                                                 | 70 (±1)        | mm             |
| Height                                                                                                                | 101 (±1)       | mm             |
| (height over terminals)                                                                                               | 107 (±2)       | mm             |
| Mass (typical)                                                                                                        | 1.68           | kg             |
| TERMINAL TYPE                                                                                                         |                |                |
| FASTON (Quickfit / release)                                                                                           | 6.35           | mm             |
| 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 (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 (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                                                                                | 1.25           | A              |
| MAXIMUM DISCHARGE CURRENT                                                                                             |                |                |
| 1 minute                                                                                                              | 50             | A              |
| SHORT-CIRCUIT CURRENT & INTERNAL RESISTANCE                                                                           |                |                |
| (according to EN IEC 60896-21)                                                                                        |                |                |
| Internal resistance                                                                                                   | N/A            | m <sub>Ω</sub> |
| Short-Circuit current                                                                                                 | N/A            | A              |
| IMPEDANCE                                                                                                             |                |                |
| Measured at 1 kHz                                                                                                     | 45             | m <sub>Ω</sub> |
| PERFORMANCE & CHARACTERISTICS                                                                                         |                |                |
| Refer to the technical manual                                                                                         | YUCEL          |                |
| 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 |                |                |



#### LAYOUT



#### 3RD PARTY CERTIFICATIONS

ISO 9001 - Quality Management Systems  
 ISO 14001 - Environmental Management Systems  
 EN 18001 - OHSAS Management Systems  
 UNDERWRITERS LABORATORIES Inc.



#### STANDARDS

IEC61056



ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE  
 Issue No.: V.3 / Issue Date: September 2015



YUASA BATTERY SALES UK LTD.  
 Unit 13, Hunts Rise  
 South Marston Industrial Estate  
 Swindon  
 SN3 4TG  
 UK