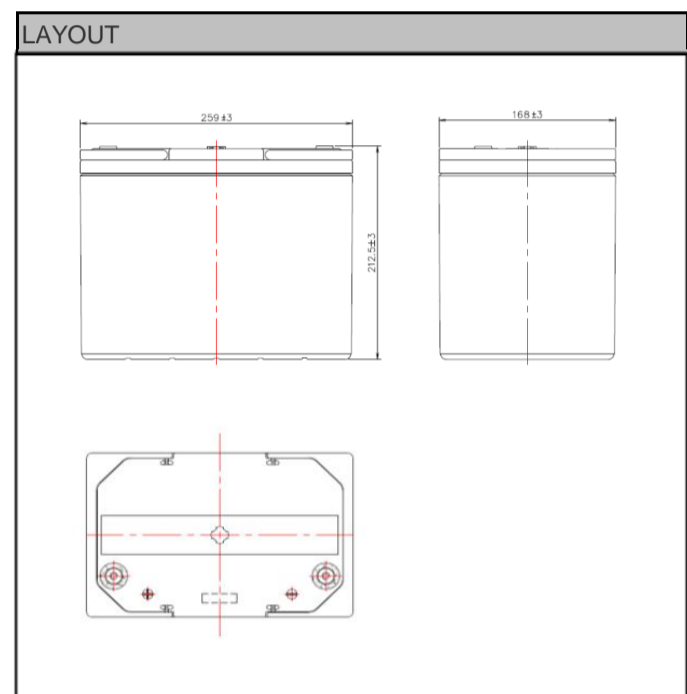
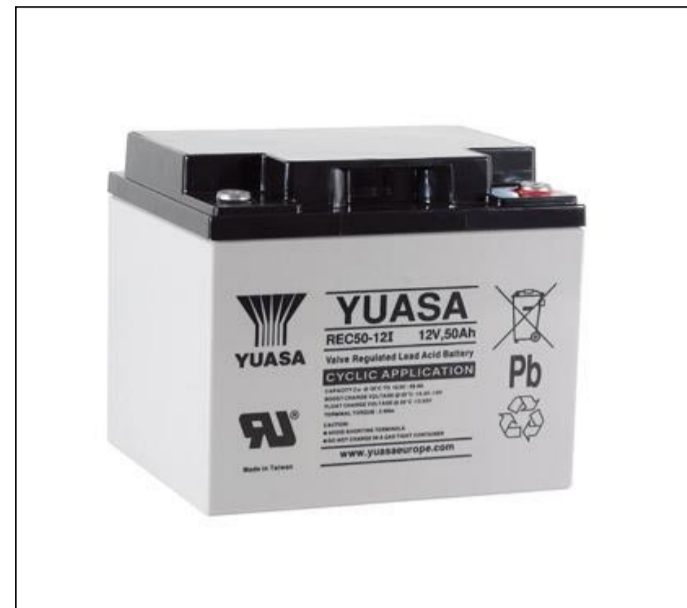


## RE-Series - Valve Regulated Lead Acid Battery

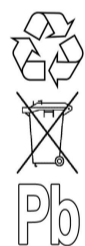
### REC50-12

| SPECIFICATIONS  |                |            |
|---|----------------|------------|
| Nominal voltage   | 12             | V          |
| 20-hr rate Capacity to 1.75VPC at 20°C  | 50             | Ah         |
| 10-hr rate Capacity to 1.75VPC at 20°C  | 40.00          | Ah         |
| DIMENSIONS  |                |            |
| Length  | 197 (±2)       | mm         |
| Width   | 165 (±2)       | mm         |
| Height  | 175 (±2)       | mm         |
| (height over terminals)   | N/A            | mm         |
| Mass (typical)  | 15.3           | kg         |
| TERMINAL TYPE   |                |            |
| Female threaded terminal  | M5             |            |
| Torque  | 2-3Nm          | Nm         |
| OPERATING TEMPERATURE RANGE   |                |            |
| Storage   | -15°C to +50°C |            |
| Charge  | -0°C to +40°C  |            |
| Discharge   | -15°C to +40°C |            |
| STORAGE   |                |            |
| Capacity loss per month at 20°C (approx)  | 3              | %          |
| CASE MATERIAL   |                |            |
| Standard  | ABS (UL94:HB)  |            |
| Option - Flame Retardant  | 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  | 14.52 (±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  | 12.5           | A          |
| Cyclic (or Boost) charge current limit  | 12.5           | A          |
| MAXIMUM DISCHARGE CURRENT   |                |            |
| 1 second  | 400            | A          |
| 1 minute  | 185            | A          |
| SHORT-CIRCUIT CURRENT & INTERNAL RESISTANCE<br>(according to EN IEC 60896-21)   |                |            |
| Internal resistance   | N/A            | m          |
| Short-Circuit current   | N/A            | A          |
| CYCLIC LIFE DATA  |                |            |
| 100% DOD down to 80% capacity   | 300            | cycles     |
| 75% DOD down to 80% capacity  | 500            | cycles     |
| 50% DOD down to 80% capacity  | 600            | cycles     |
| 25% DOD down to 80% capacity  | 1400           | cycles     |
| IMPEDANCE   |                |            |
| Measured at 1 kHz   | 5.7            | m          |
| DESIGN LIFE   |                |            |
| EUROBAT Classification: General purpose   | 6 to 9         | years      |
| Yuasa design life @ 20°C  | 7              | 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 |                |            |



#### 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: July 2014



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