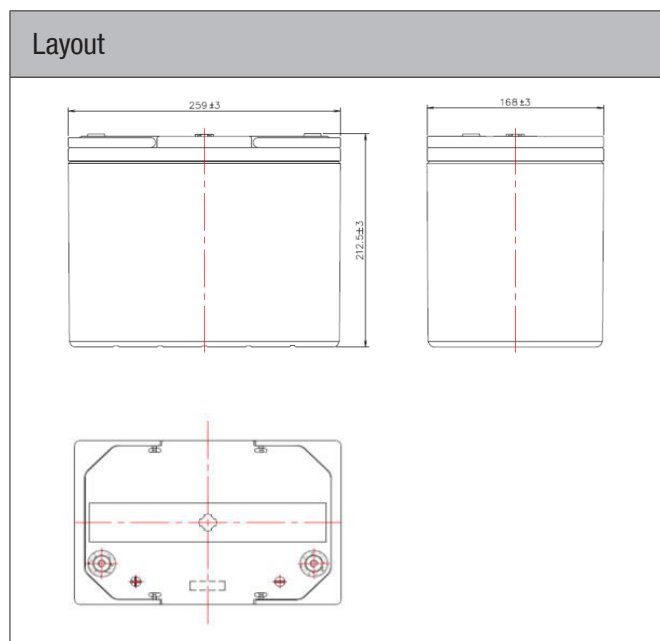


# RE-Series - Valve Regulated Lead Acid Battery

## 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 (according to EN IEC 60896-21)		
Internal resistance	N/A	mΩ
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	mΩ
DESIGN LIFE		
EUROBAT Classification: General purpose	6 to 9	years
Yuasa design life @ 20°C	7	years
SAFETY		
<b>Installation</b>	Can be installed and operated in any orientation except permanently inverted	
<b>Handles</b>	Batteries must not be suspended by their handles (where fitted)	
<b>Vent valves</b>	Each cell is fitted with a low pressure release valve to allow gasses to escape and then reseal.	
<b>Gas Release</b>	VRLA Batteries release hydrogen gas which can form explosive mixtures in air. Do not place inside a sealed container	
<b>Recycling</b>	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