

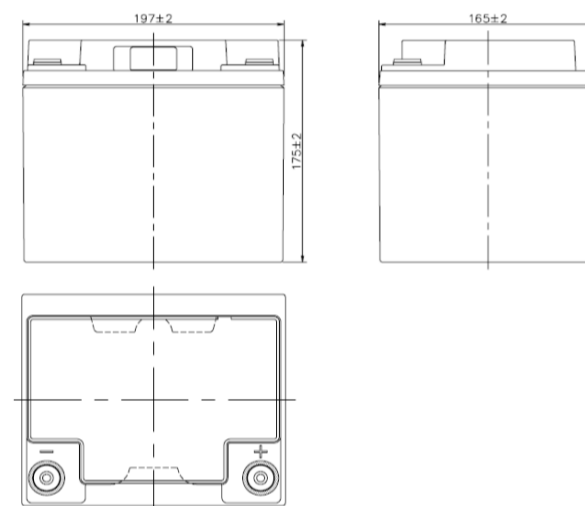
RE-Series - Valve Regulated Lead Acid Battery

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	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		



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: July 2014



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