REW 45-12
SPECIFICATION SHEET

Specifications:

Valve Regulated Lead Acid (VRLA) Recharcheable Battery

Nominal Voltage: 12V 45W/cell (10 min., 1.6 vpc)

Dimensions:	Length	151 ± 1 mm
	Width	65 ± 1 mm
	Case height	94 ± 1 mm
	Overall height	97,5 ± 1 mm
Terminal	Faston Tab 250, 6,3mm width	
Weight	appr.	2,7 kgs
Service life :	6 – 8 years	
Flame retardancy :	UL 94 HB, optionally UL 94 VO	

Constant Power Discharge Characteristics unit: Watt (25°C) min.

Time / V	1 min.	3 min.	5 min.	10 min.	15 min.	30 min.	60 min.
10,8 V	630	444	354	252	198	111	59
10,2 V	660	495	396	264	204	114	60
9,6 V	720	534	414	273	213	120	62

Charging:

Method	Given Voltage	Maximum Charging Current	Special Conditions (S)
Float charge (trickle)	13,65 V ± 0,15 V	0,1 C(A)	When to constantly use at below 5°C or over 35°C temp. Compensation of –18mV/°C shall be applied with 25°C as a center point
Cyclic charge	14,4 V ~ 15,0 V	1,75 A	When to constantly use at below 5°C or over 35°C temp. Compensation of –24mV/°C shall be applied with 25°C as a center point

Storage Period without Use:

Storage temperature	Maximum storage period
25°C or less	6 months
30°C or less	4 months
35°C or less	3 months
40°C or less	2 months

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REW-Series - Valve Regulated Lead Acid Battery

REW45-12

Data Sheet

SPECIFICATIONS		
Nominal voltage	12	V
20-hr rate Capacity to 1.75VPC at 20°C	8	Ah
10-hr rate Capacity to 1.75VPC at 20°C	6.96	Ah
DIMENSIONS		
Length	151 (±0.5)	mm
Width	64 (±0.5)	mm
Height	94 (±0.5)	mm
(height over terminals)	97,5 (±0.5)	mm
Mass (typical)	2.7	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 - Flame Retardant	ABS (UL94:V0)	
Option	ABS (UL94:HB)	
CHARGE VOLTAGE		
Float charge voltage at 20°C	13.65 (±1%) 2.275 (±1%)	V 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%) 2.42 (±3%)	V 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	2	A
MAXIMUM DISCHARGE CURRENT		
1 second	105	A
1 minute	42	A
SHORT-CIRCUIT CURRENT & INTERNAL RESISTANCE		
(according to EN IEC 60896-21)		
Internal resistance	N/A	mΩ
Short-Circuit current	N/A	A
IMPEDANCE		
Measured at 1 kHz	24	mΩ
PERFORMANCE & CHARACTERISTICS		
Refer to the technical manual	REW	
DESIGN LIFE		
EUROBAT Classification: General purpose	6 to 9	years
Yuasa design life @ 20°C	up to 10	years
SAFETY		

Installation
Can be installed and operated in any orientation except permanently inverted

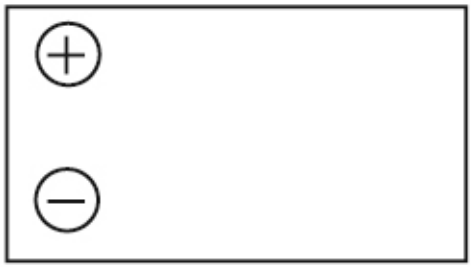
Handles
Batteries must not be suspended by their handles (where fitted)

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

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