NP-Series - Valve Regulated Lead Acid Battery

RBC31HY

Data Sheet

SPECIFICATIONS		
Nominal voltage	12	V
20-hr rate Capacity to 1.75VPC at 20°C	7	Ah
10-hr rate Capacity to 1.75VPC at 20°C	6.4	Ah
DIMENSIONS		
Length	151 (±1)	mm
Width	65 (±1)	mm
Height		mm
(height over terminals)	97.5 (±2)	mm
Mass (typical)	2.65	kg
TERMINAL TYPE		
FASTON (Quickfit / release)	4.75	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 (UL 94:HB)	
Flame retardant option (FR)	ABS (UL94:V0)	
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	1.75	A
MAXIMUM DISCHARGE CURRENT		
1 second	210	A
1 minute	48	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	45	mΩ
PERFORMANCE & CHARACTERISTICS		
Refer to the technical manual	NP	
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.
VdS (Germany) - VdS No: G189099

STANDARDS
IEC61056

ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE
Issue No.: V.2 / Issue Date: March 2011

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