Data Sheet

NPW-Series - Valve Regulated Lead Acid Battery

NPW45-12 (FR)

SPECIFICATIONS		
Nominal voltage	12	V
20-hr rate Capacity to 1.75VPC at 20°C	8.5	Ah
10-hr rate Capacity to 1.75VPC at 20°C	7.42	Ah
DIMENSIONS		
Length	151 (±1)	mm
Width	65 (±1)	mm
Height	94 (±1)	mm
(height over terminals)	97.5 (±2)	mm
Mass (typical)	2.7	kg
TERMINAL TYPE		
FASTON (Quickfit / release)	6.35	mm
OPERATING TEMPERATURE RANGE		
Storage	-15°C to +40°C	
Charge	-0°C to +40°C	
Discharge	-15°C to +50°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%)	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	14.5 (±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	No limit	A
Cyclic (or Boost) charge current limit	2.125	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	NPW	
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

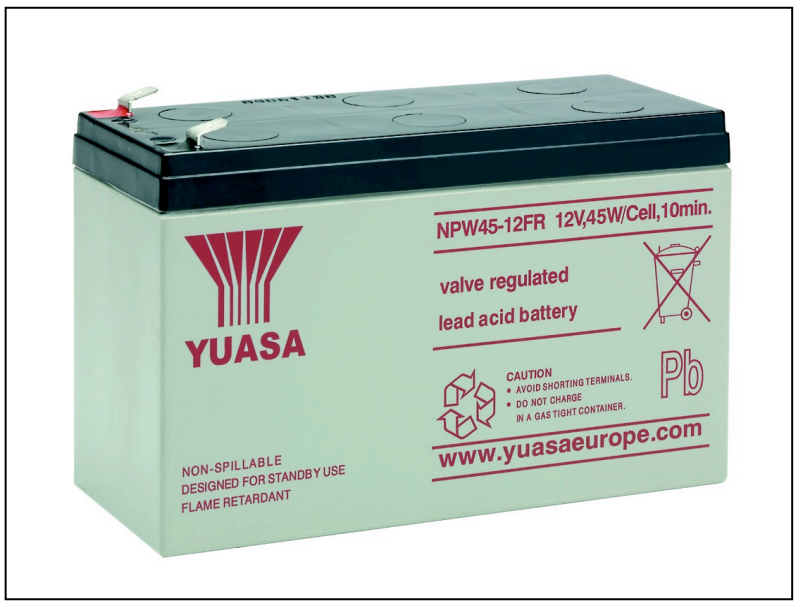
Each cell is fitted with a low pressure release valve to allow gasses to escape and then reseal.

Gas Release

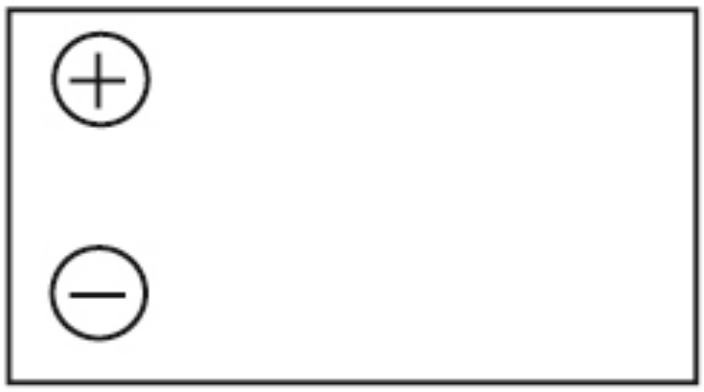
VRLA Batteries release hydrogen gas which can form explosive mixtures in air. Do not place inside a sealed container

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.

STANDARDS

IEC61056

Certificate No. FM 10626

Certificate No. EMS 55229

ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE

Issue No.: V.1 / Issue Date: July 2010

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