

# NPW-Series - Valve Regulated Lead Acid Battery

## NPW45-12 (FR)

# Data Sheet

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		
<b>(according to EN IEC 60896-21)</b>		
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		
<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		



### 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

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