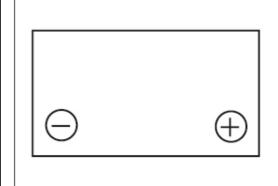
## **NP-Series - Valve Regulated Lead Acid Battery** NP38-12I

SPECIFICATIONS			
Nominal voltage	12	v	
	38	Ah	
20-hr rate Capacity to 1.75VPC at 20°C			
10-hr rate Capacity to 1.75VPC at 20°C	35.3	Ah	
DIMENSIONS		r	
Length	197 (±1)	mm	
Width	165 (±1)	mm	
Height	170 (±2)	mm	
(height over terminals)	N/A	mm	
Mass (typical)	14.2	kg	
TERMINAL TYPE			
Female threaded terminal	M5		
Torque	2.45	Nm	
OPERATING TEMPERATURE RANGE			
Storage	-20°C t	-20°C to +60°C	
Charge		-15°C to +50°C	
Discharge	-20°C t	-20°C to +60°C	
STORAGE			
Capacity loss per month at 20°C (approx)	3	%	
CASE MATERIAL			
Standard Option	ABS (U	ABS (UL.94:HB)	
Flame retardant option (FR)	ABS (U	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	9.5	A	
MAXIMUM DISCHARGE CURRENT			
1 second	1140	A	
1 minute	48	A	
SHORT-CIRCUIT CURRENT & INTERNAL RESISTANCE			
(according to EN IEC 60896-21)			
Internal resistance	18.22	mΩ	
Short-Circuit current	804	А	
IMPEDANCE		I	
Measured at 1 kHz	14	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 pern	nanently inverted		
Handles			
Batteries must not be suspended by their handles (where fitt	ed)		
Vantualuas			





### **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: G182024



#### STANDARDS

IEC61056



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



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

## www.yuasaeurope.com

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

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

YUASA's VRLA batteries must be recycled at the end of life in accordance with local and national laws and

Vent valves

Gas Release

container

Recycling

regulations

NP

# **Data Sheet**