NP-Series - Valve Regulated Lead Acid Battery

Data Sheet

NP38-12I

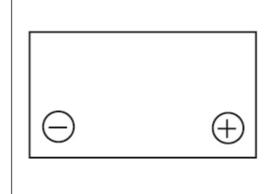
SPECIFICATIONS			
Nominal voltage	12	V	
20-hr rate Capacity to 1.75VPC at 20°C	38	Ah	
10-hr rate Capacity to 1.75VPC at 20°C	35.3	Ah	
DIMENSIONS	00.0	7.01	
Length	197 (±1)	mm	
Width	165 (±1)	mm	
Height	170 (±2)	mm	
(height over terminals)	N/A	mm	
Mass (typical)	14.2	kg	
TERMINAL TYPE		Ū	
Female threaded terminal	M5		
Torque	2.45	Nm	
OPERATING TEMPERATURE RANGE			
Storage	-20°C to	-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	ABS (UL.94:HB)	
Flame retardant option (FR)	ABS (U	ABS (UL94:V0)	
CHARGE VOLTAGE			
	13.65 (±1%)	V	
Float charge voltage at 20°C	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%) 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	А	
MAXIMUM DISCHARGE CURRENT			
1 second	1140	A	
1 minute	48	Α	
SHORT-CIRCUIT CURRENT & INTERNAL RESISTANCE			
(according to EN IEC 60896-21)			
Internal resistance	18.22	mΩ	
Short-Circuit current	804	A	
IMPEDANCE			
Measured at 1 kHz	14	mΩ	
PERFORMANCE & CHARACTERISTICS			
Refer to the technical manual	NP		
DESIGN LIFE			
EUROBAT Classification: Standard Commercial	3 to 5	vears	
		,	
Yuasa design life @ 20°C	up to 5	years	
SAFETY			
Installation	anonthy invorted		
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.			

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



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: G182024



STANDARDS

IEC61056



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



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Gas Release

container **Recycling**

regulations