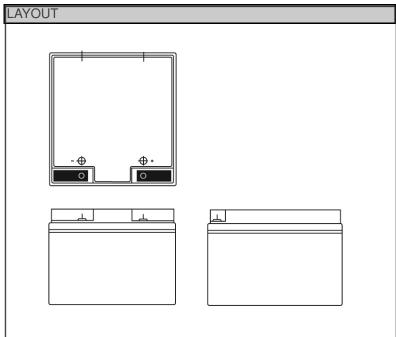
Data Sheet

NPL-Series - Valve Regulated Lead Acid Battery NPL24-12I (FR)

SPECIFICATIONS			
Nominal voltage	12	V	
20-hr rate Capacity to 10.5V at 20°C	24	Ah	
10-hr rate Capacity to 10.8V at 20°C	24	Ah	
	21.12	All	
DIMENSIONS			
Length	166 (±0.5)	mm	
Width	175 (±0.5)	mm	
Height	125 (±0.5) N/A	mm	
(height over terminals)	9.0	mm	
Mass (typical) TERMINAL TYPE	9.0	kg	
	ΝΓ		
Female threaded terminal	M5	mm	
	2.5	Nm	
Storage (in fully charged condition)		-20°C to +60°C	
Charge		-15°C to +50°C -20°C to +60°C	
Discharge	-20°C to	5 +60°C	
STORAGE	3	0/	
Capacity loss per month at 20°C (approx)	3	%	
CASE MATERIAL		04.11D)	
Standard Option		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	Α	
Cyclic (or Boost) charge current limit	6.00	А	
MAXIMUM DISCHARGE CURRENT			
1 second	500	А	
1 minute	150	А	
SHORT-CIRCUIT CURRENT & INTERNAL RESISTANCE			
(according to EN IEC 60896-21)			
Internal resistance	N/A	ml	
Short-Circuit current	N/A	А	
IMPEDANCE			
Measured at 1 kHz	9.5	m۵	
PERFORMANCE & CHARACTERISTICS	•		
Refer to the technical manual	NPL		
DESIGN LIFE			
EUROBAT Classification: High performance	10 to 12	years	
Yuasa design life @ 20°C	up to 10	years	
SAFETY			





3RD PARTY CERTIFICATIONS

ISO 9001 - Quality Management Systems ISO 14001 - Environmental Management Systems EN 18001 - OHSAS Management Systems UNDERWRITERS LABORATORIES Inc.



STANDARDS

IEC61056 IEC60896-21/22







Can be installed and operated in any orientation except permanently inverted

Handles

Installation

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





ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE Issue No.: V.1 / Issue Date: July 2010



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