# **ENL-Series - Valve Regulated Lead Acid Battery EN160-4**

SPECIFICATIONS			
Nominal voltage	4	V	
10-hr rate Capacity to 3.6V at 20°C	163	Ah	
10-min rate Constant Power to 1.6V/cell at 20°C	672	Watts	
DIMENSIONS			
Length	206 (±2)	mm	
Width	210 (±1)	mm	
Height	240 (±1)	mm	
(height over terminals)	N/A	mm	
Mass (typical)	24.0	kg	
TERMINAL TYPE			
Threaded terminal - ( M=Male or F=Female )	M8 (F)	mm	
Torque	6 (±0.5)	Nm	
OPERATING TEMPERATURE RANGE			
Storage (in fully charged condition)	-20°C t	-20°C to +50°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			
Flame retardant	ABS (UL94:V0)		
CHARGE VOLTAGE			
Float charge voltage at 20°C	4.52 (±1%) 2.26 (±1%)	V V/cell	
Float Charge voltage temperature correction factor (for variations from the standard 20°C)	-3	mV/cell/°C	
Boost charge at 20°C	4.8 (±2%) 2.40 (±2%)	V V/cell	
Boost Charge voltage temperature correction factor (for variations from the standard 20°C)	-4	mV/cell/°C	
CHARGE CURRENT			
Float charge current limit	No limit	А	
Boost charge current limit	40.75	Α	
MAXIMUM DISCHARGE CURRENT			
1 second	1500	А	
1 minute	960	Α	
SHORT-CIRCUIT CURRENT & INTERNAL RESISTANCE			
(according to EN IEC 60896-21)			
Internal resistance		m	
Short-Circuit current	3009	Α	
IMPEDANCE			
Measured at 1 kHz	1.2	m	
PERFORMANCE & CHARACTERISTICS			
Refer to the technical manual	EN		
DESIGN LIFE			
EUROBAT Classification: High Performance	-		
EUROBAT Classification: Long Life	12+	Veare	
		years	
Yuasa design life @ 20°C	12	years	
SAFETY			



SDECIEICATIONS

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.

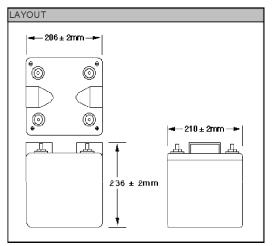
#### Gas Release

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





## **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







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