

Product Specification UXH38-12



Yuasa UXH Series VRLA Battery, 10 Years Design Life

Yuasa UXH batteries are constructed to yield even greater capacity than comparable batteries. The UXH uses AGM technology which ensures that there is no 'free acid' in the battery. This allows the battery to be mounted either vertically or horizontally. An additional feature of this product is Yuasa's heavy duty lead calcium-tin alloy, providing the UXH battery the ability to remain in float service for 10 years.

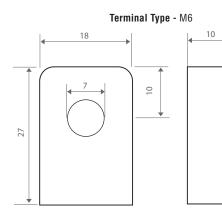
- 10 Year Design Life
- High Energy Density
- Gas Pressure Venting System
- No Equalising Charge Required

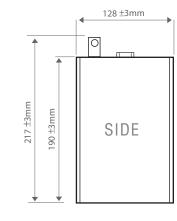
General Performance				
Battery	UXH38-12			
Application	Floating			
Design Life	10 Years			
Nominal Capacity	38Ah			
Actual Capacity at 25°C	1 hour rate to 1.70 Vpc	22.0Ah		
	3 hour rate to 1.70 Vpc	29.7Ah		
	10 hour rate to 1.80 Vpc	35.0Ah		

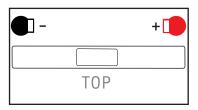
Electrolyte	
Fully charge density at 20°C	1.300
Density Range	1.290-1.310
Gelled/Absorbed	Absorbed
Mounting Orientation	Vertical/Horizontal

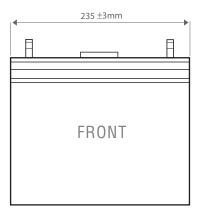


Plates		
Positive Plates:		
Number/cell	3	
Туре	Flat Pasted	
Material of grid	Lead-Calcium-Tin Alloy	
Thickness	4.0mm	
Negative Plates:		
Number/cell	4	
Туре	Flat Pasted	
Material of grid	Lead-Calcium-Tin Alloy	
Thickness	2.3mm	









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Torque Setting Terminal Torque Setting

Compliant Standard Battery Standard



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Physical Properties		Discharge Characteristics	
Separators			
Туре	Glass Mat	IP Pop Discharge Characteristic N N N N N N	
Is glass fibre included?	Yes	190 Discharge Characteristic	
Thickness	1.5mm	(V) ₍ (V) 6.5 - 13	
Lid & Container Materials			
Lid Material, Colour	Acrylonitrile Butadiene Styrene ABS/Dark Grey	b 6.0 - 12 c 12 c 10 c 12 c	
Container Material, Colour	Acrylonitrile Butadiene Styrene ABS/Dark Grey		
Flame Retardant	No	E 5.0 − 10 E 4.5 − 9 3.12C 2.27C 0.99C 0.6C	
Safety Vent Operational Pressure	20kPA		
Flame Arrestor Filter Fitted	Yes	4.0 - 8	
Dimensions:		1 2 4 6 8 10 20 40 60 100	
Overall Width	235mm ± 3	0.1 0.2 0.3 0.5 1 2 0.4	
Depth	128mm ± 3	Discharg	
Height	190mm ± 3		
Overall Height	217mm ± 3	Charging Characteristics	
Battery Weight (kg) Total (wet)	17kg		

12V Model 6V Model Discharge Characteristics Curves at 25°C (V) -(V) 6.5 **ferminal Voltage** 0.050 0.0925C 4.0 C = Rated Capacity at 20HR 40 60 100 200 400 600 1000 2000 (Minutes) 4 6 8 10 20 0.1 0.2 0.3 0.5 1 2 3 4 5 10 20 (Hours) 0.4 **Discharge Time**

Charging Characteristics

Electrical Properties			
Self Discharge Rate @ 25°C	<3% per month		
Internal Resistance (mOHMS)	7mΩ		
Normal Charge (Amperes)	38A		
Max. Charge (Amperes)	7.6A		
Max. Sustained Current without damage (discharging 5 sec)	175A		
Volts End of Charge	2.275 Vpc		
	20°C	25ºC	30°C
Float Voltage (Vpc) pure floating applications	2.290 Vpc	2.275 Vpc	2.260 Vpc
Float Current (mA)	~38mA	~38mA	~38mA
Initial Short circuit current (A)	~1900A		
Efficiency at 10 hour rate (%):			
Ampere-Hour	>90%		
Watt-Hour	>78%		

3.9 - 5.4 N.m.

JIS C8704-2: 1999

Charged Volume Charging Current S Charging Voltage C : Rated Capacity at 20HR 2.275V Constant Voltage Charging at 25°C (%) - 120 100 0.10 2.4 Charged Volum 0.08C -2.3 80 Charging Voltag 60 0.060-2.2 40 0.04C-2.1 After 100% Discharge 0.020 2.0 20 **Charging Current** 0 0 Δ 8 12 16 20 24 28 32 36 Charging Time (Hours)

CenturyYuasa

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UL924, UL File No. MH12970

Mkt No. YU309-589a