

## Front Terminal VRLA Battery 10-Year Design Life

The PWL is a long-life 10-year endurance battery for standby power applications. Manufactured to IEC and BS standards, the battery uses a sealed construction and AGM technology to eliminate 'free acid' to allow the battery to be mounted either horizontally or vertically\*.

\* Not in an inverted position for extended periods

- 10 year design life in standby applications
- Front terminal connection for ease of installation and maintenance
- AGM electrolyte suspension technology assures no free electrolyte
- High gas recombination efficiency
- Case Material ABS flame retardant UL94:VO Oxygen index 30
- Compliant with BS6290-4 and IEC60896-2

### General Performance

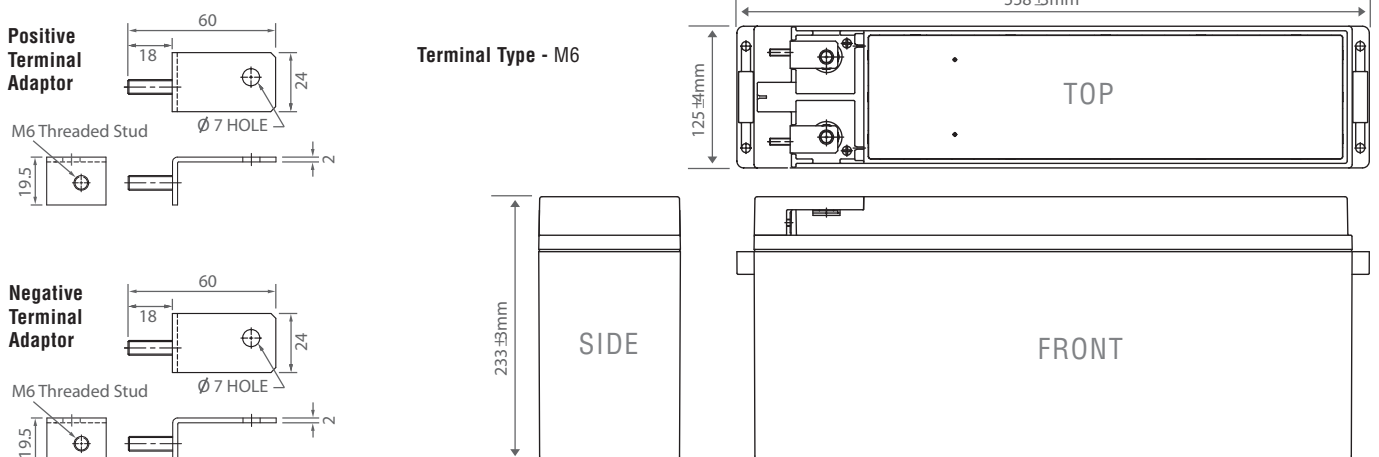
Battery	PWL 12V100FT	
Application	Floating	
Design Life	10 Years at 25°C	
	12 Years at 20°C	
Nominal Capacity	100Ah	
Actual Capacity at 25°C	Ah @ C1 to 1.60Vpc	63Ah
	Ah @ C3 to 1.70Vpc	82.5Ah
	Ah @ C10 to 1.80Vpc	100Ah
	Wh @ C1 to 1.60Vpc	726Wh
	Wh @ C3 to 1.70Vpc	930Wh
	Wh @ C10 to 1.80Vpc	1170Wh

### Electrolyte

Fully charge density at 25°C	1.290 ± 0.010
Gelled/Absorbed	Absorbed
Mounting Orientation	Vertical/Horizontal (not Inverted)

### Plates

Positive Plates:	
Number/cell	5
Type	Flat Pasted
Material of grid	Calcium Lead Tin Alloy
Thickness	4.1mm
Negative Plates:	
Number/cell	6
Type	Flat Pasted
Material of grid	Calcium Lead Tin Alloy
Thickness	2.0mm



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### Physical Properties

Separators	
Type	Glass Mat
Is glass fibre included?	Yes
Thickness	1.2mm
Container & Cover Materials	
Lid Material, Colour	Acrylonitrile Butadiene Styrene ABS/Grey
Container Material, Colour	Acrylonitrile Butadiene Styrene ABS/Grey
Flame Retardant	Yes - UL94VO
Safety Vent Operational Pressure	20kPA
Dimensions:	
Width	125mm ± 4
Overall Depth	558mm ± 3
Height	233mm ± 3
Battery Weight (Wet)	40kg

### Electrical Properties

Self Discharge Rate @ 25°C	<3% per month		
Normal Charge (Amperes)	10A		
Max. Charge (Amperes)	20A		
Internal Resistance (mOHMS)	3.5 mΩ		
Volts End of Charge (@20°C)	2.26Vpc		
	20°C	25°C	30°C
Float Voltage	2.26Vpc	2.245Vpc	2.23Vpc
Float Current (mA)	~100mA	~100mA	~100mA
Initial Short circuit current (A)	~1700A		
Efficiency at 10 hour rate (%):			
Ampere-Hour	>90%		
Watt-Hour	>80%		

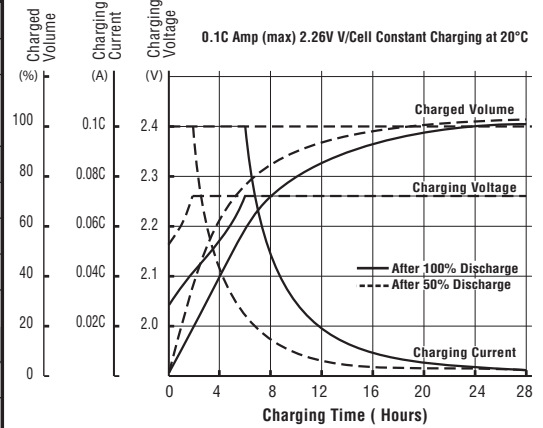
### Torque Setting

Terminal Torque Setting	5 N.m. +/- 0.5
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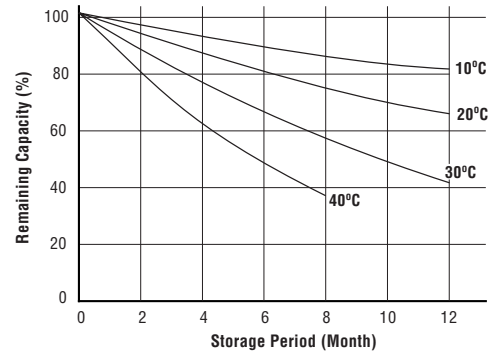
### Compliant Standard

Battery Standard	IEC60896-2 / BS6290-4
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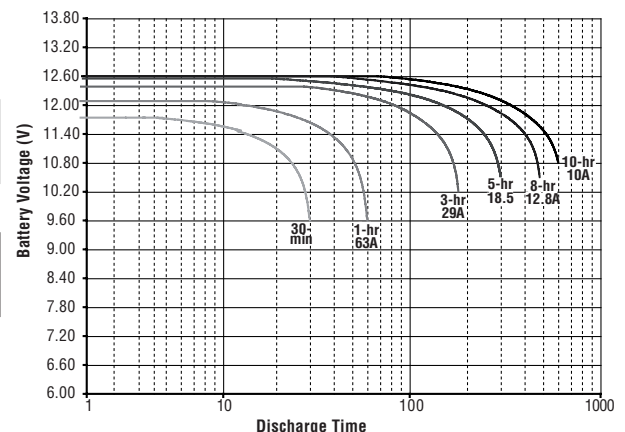
### Charging Characteristics



### Self Discharge Characteristics



### Discharge Characteristics Curves



**CenturyYuasa**