

FIRST NATIONAL
battery™
WORLD CLASS BATTERY MANUFACTURER

RENEWABLY
ENERGY

RAYLITE™
M-Solar



POSITIVE PLATE

The tubular plate construction incorporates low antimonial lead alloy spines in complete contact with the active material, which is retained by an outer gauntlet. This enables the electrolyte to penetrate freely, ensuring a high power output per unit volume.

NEGATIVE PLATE

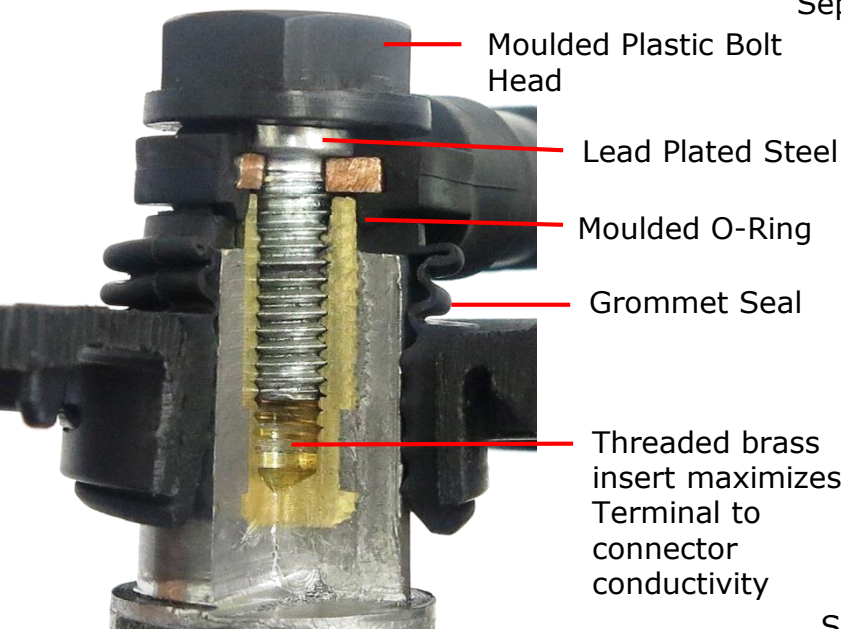
The negative plate is of a highly porous paste on a lead alloy grid. This compliments the positive plate construction, providing a balanced performance and superior life.

INJECTION MOULDED CONNECTOR HEAD

The bolt-on connector facilitates easy cell replacement. The terminal post is totally enclosed and acid resistant for maximum safety. Orifice for voltage readings.

TERMINAL SEAL

The new grommet style terminal assembly allows the terminal to slide upwards as the plate grows with age. The tight seal prevents electrolyte spillage.



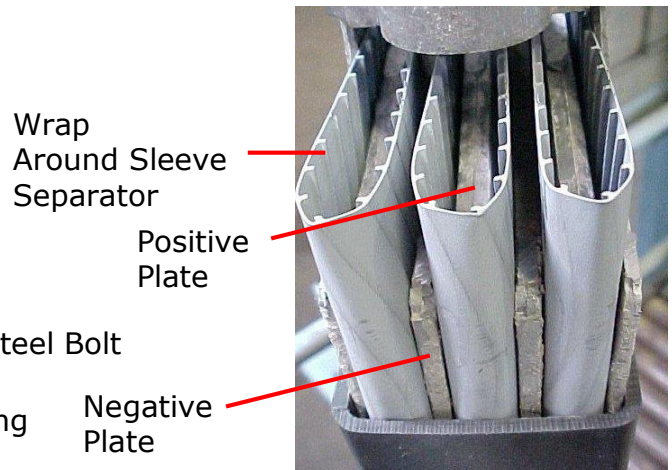
FLOAT LEVEL INDICATOR

Max/Min mark are clearly visible and easy to read. Moulded float for accurate level control. Moulding allows hydrometer and thermometer usage.



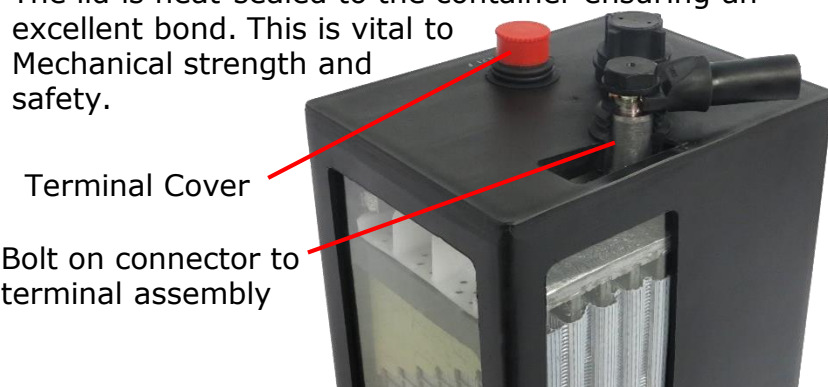
WRAP-AROUND SLEEVE SEPARATOR

Microporous polyethylene is specially calendered with ribs. Fully enclosed plates cannot develop "mossing" or shorts between the plates. Extended battery life is achieved using sleeved plates



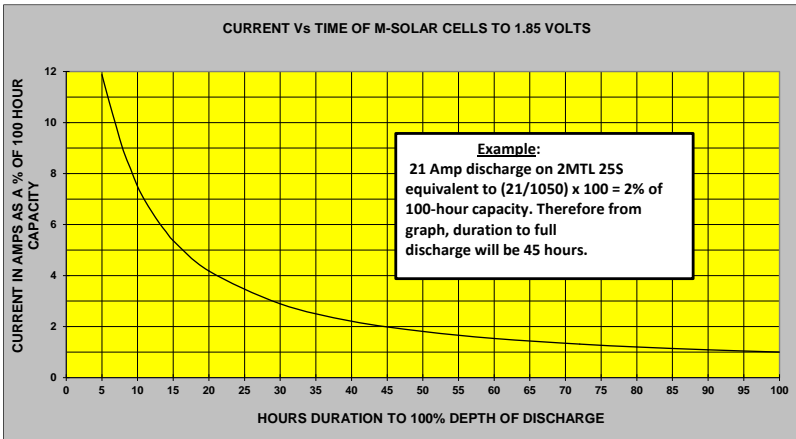
CONTAINER AND LID

The lid is heat-sealed to the container ensuring an excellent bond. This is vital to Mechanical strength and safety.

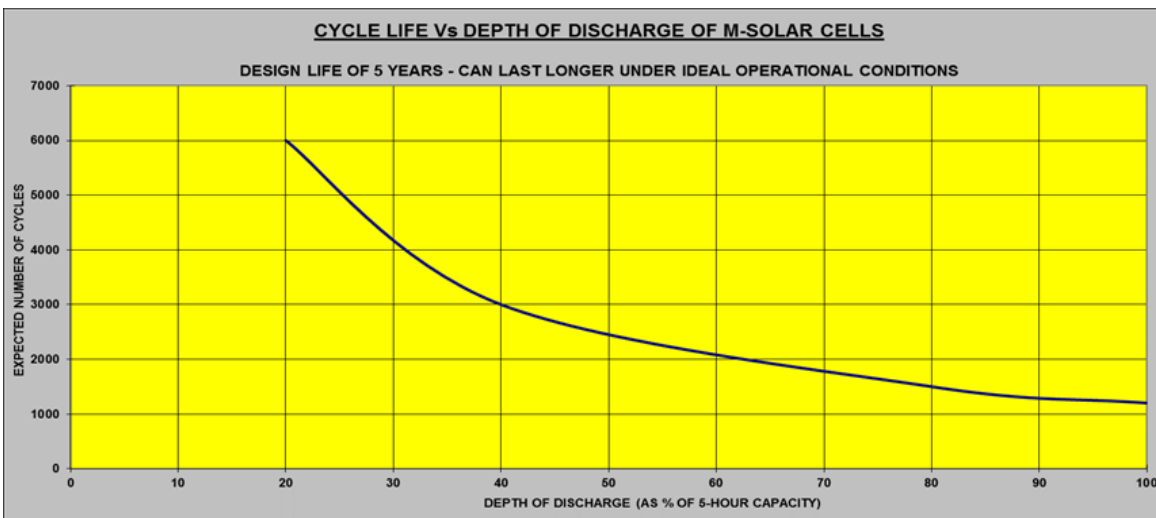


Type	Voltage	Capacity @ 25°C (Ah)				Battery Dimensions (mm)			Approx Battery Mass (kg)	Acid Volume per Cell (litres)
		C ₅	C ₁₀	C ₂₀	C ₁₀₀	Length (mm) "L"	Width (mm) "W"	Height (mm) "H"		
3 MIL 15S	6	406	435	470	575	585	182	445	80	5.6
3 MIL 17S	6	464	500	535	655	585	198	445	91	6.3
3 MIL 19S	6	522	560	605	740	585	210	445	106	6.8
3 MIL 21S	6	580	625	670	820	585	230	445	116	7.2
3 MIL 25S	6	696	750	805	985	585	262	445	133	8.4
2 MTL 25S	4	780	840	900	1105	411	262	497	97	10.7
2 MTH 27S	4	988	1065	1145	1400	415	262	558	120	11.3
2 MTE 21S	4	1020	1100	1180	1445	415	230	735	127	13.0
2 MTE 25S	4	1224	1320	1415	1735	415	262	735	145	14.2
2 MTE 27S	4	1326	1430	1535	1880	415	262	735	154	15.0
2 MTE 29S	4	1428	1540	1655	2025	415	262	735	161	14.0

Note: Operating S.G. = 1.280 ± 0.01



Cable Application	M-Solar Monoblock Connectors	
	35 mm ²	70 mm ²
Inter Cell (150mm)	CB475	CB499
Inter Tray (360mm)	CB549	CB551
Take-off (2000mm)	CB552	CB554



N.B.
If supplied as loose cells, the battery must be supported either by containers or clamping, to prevent bulging of the container walls.

**Corner Liverpool & Bristol Roads,
Benoni South, 1502
P.O. Box 5015 Benoni South, 1502
South Africa
Telephone: +27 11 741 3600
Fax: +27 11 421 2642**

**FIRST
NATIONAL**
battery™

WORLD CLASS BATTERY MANUFACTURER



In the interests of continuing advancement we reserve the right to modify specifications without prior notice.
Copyright subsists in this work. Any unauthorised reproduction, adaption and copying of this document are acts of copyright infringements and entitles First National Battery to take action.



SANS IEC 60254-2:2008

M-Solar : December 2016