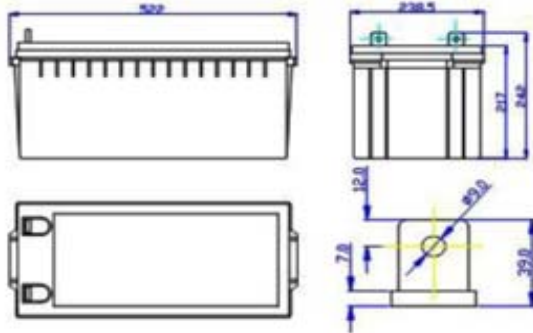




LUM 12V 165Ah @ 20Hr rate



Battery Construction

Component	Positive Plate	Neg. Plate	Container	Cover	Safety Valve	Terminal	Separator	Electrolyte
Raw Material	Lead dioxide	Lead	ABS	ABS	Rubber	Lead Alloy	AGM	Sulfuric acid

General Features

- Absorbent Glass Mat (AGM) technology for efficient gas recombination
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- Can be mounted in any orientation*
- Long service life, float or cyclic application.
- Maintenance free operation
- Low self-discharge.

Dimensions and Weight

Length (mm / inch)	: 522 / 20.55
Width (mm / inch)	: 238 / 9.38
Height (mm / inch)	: 217 / 8.54
Total Height (mm / inch)	: 242 / 9.53
Approx. Weight (Kg/lbs)	: 52/114.60

*except up side down

Performance Characteristics

Nominal Voltage	: 12V
Design Life	: 4~5 years
Nominal Capacity 80.6°F(27°C)	
20 hour rate (8.25A, 10.50 V)	: 165Ah
1hour rate (111A, 10.50 V)	: 111Ah
Internal Resistance	
Fully Charged battery 80.6°F(27°C)	: 3.6mΩ
Self-Discharge	
3% of capacity declined per month at 20°C (average)	
Operating Temperature Range	: -20 ~ 60 °C
Max. Discharge Current 80.6°F (27°C)	: 1250A(5s)
Short Circuit Current	: 2700A
Charge Methods: Constant Voltage Charge 80.6°F (27°C)	
Cycle use	: 14.10-14.40V
Maximum charging current	: 50A
Temperature compensation	: -30mV/°C
Standby use	: 13.60 ~ 13.80V
Temperature compensation	: -20mV/°C

DISCHARGE CONSTANT CURRENT PER MODULE (AMPERES AT 80.6°F/27°C)

EMV	10min	15min	20min	30min	1Hr	2Hr	3Hr	4Hr	5 Hr	6 Hr	8 Hr	10Hr	20 Hr
9.64	64.97	355.20	279.97	213.37	124.57	69.52	49.78	38.91	32.96	28.37	21.75	18.50	9.75
10.2	442.77	340.40	266.40	202.27	118.40	66.82	47.65	37.34	31.51	27.81	21.08	17.72	9.53
10.5	420.57	302.17	257.77	194.87	114.70	65.70	46.87	36.66	30.95	27.36	20.97	17.38	9.25
10.8	398.37	284.90	246.67	185.00	112.91	64.25	45.41	34.65	29.26	25.12	20.74	17.27	9.08

*EMV: End Module Voltage

DISCHARGE CONSTANT CURRENT PER MODULE (WATT AT 80.6°F/27°C)

EMV	10min	15min	20min	30min	1Hr	2Hr	3Hr	4Hr	5 Hr	6 Hr	8 Hr	10Hr	20 Hr
9.6	4847.0	3766.2	3108.0	2345.6	1375.7	798.3	580.8	454.1	387.9	319.5	251.2	206.3	113.2
10.2	4506.2	3633.8	3026.2	2308.8	1354.4	777.0	568.5	446.2	373.4	311.7	243.3	207.4	111.0
10.5	4173.2	3478.0	2886.0	2227.8	1332.0	754.6	550.5	427.2	363.3	305.0	239.9	202.9	108.1
10.8	3907.4	3300.8	2856.8	2204.3	1317.4	729.9	534.8	418.2	348.7	300.5	237.7	201.8	105.4

*EMV: End Module Voltage