



20 Years	TPPL	5 Years	-35 °C ~ +65 °C
Design Life	Technology	Warranty *	Temperature
High Rate Type	UPS	Emergency Lighting	Recyclable

Pure Lead Power

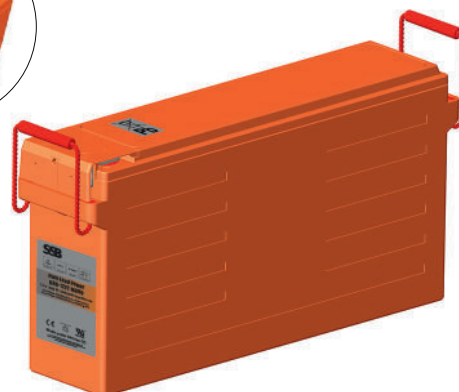
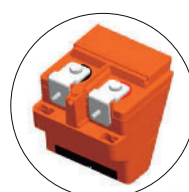
680-12FT M8V0 (12V680W)

Item Nr.: SSB2037907

Applications (for industrial standby use)

- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Communication power supply
- DC power supply

Certificates



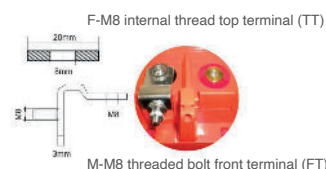
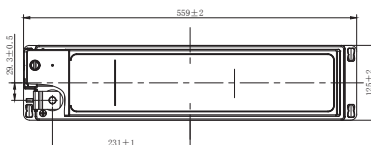
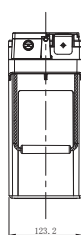
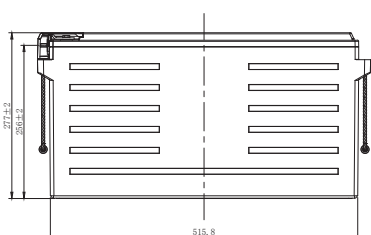
Specifications

Nominal Voltage	12V	Float Charge	2.285V/cell @ 20°C, 2.270V/cell @ 25°C Temperature coefficient: -3mV/cell/°C
Open-circuit voltage	12.96V (fully charged)	Boost Charge	2.395V/cell @ 20°C, 2.375V/cell @ 25°C Temperature coefficient: -4mV/cell/°C
Nominal Rate	676.3W/cell (W ₁₅ , 1.60V/cell)	Charging Current	0.1-0.3C
Nominal Capacity	162Ah (C ₁₀ , 1.80V/cell)	Self Discharge	SSB Battery PLP batteries may be stored for up to 24 months at 20°C (self-discharge per month ≤0.5%). For higher temperatures the time interval will be shorter. Batteries need to be given a freshening charge when the OCV is <12.72 V/block or when the maximum storage time is reached, whichever occurs first.
Approx. Weight	48.0kg	Life Expectancy	>12 years according to EUROBAT (Very Long Life) 20 years Design Life
Terminal	FT (M-M8)/TT (F-M8)		
Container Material	ABS UL94 V0		
Max. Discharge Current	1800A (5 s) 629.9A (30s)		
Short-circuit Current	3000A		
Internal Resistance / Impedance (1kHz)	Approx. 3.7mΩ (±10 %)		
Nominal Oper. Temp. R.	20±2°C		
Operating Temp. Range	Discharge: -35°~65°C Charge: -20~45°C Storage: 5~30°C		

Dimensions

■ Unit: mm | Dimensions: 559 Length X 125 Width X 277 Height (277 Height incl. Terminal)

■ TT(F-M8)/FT(M-M8)



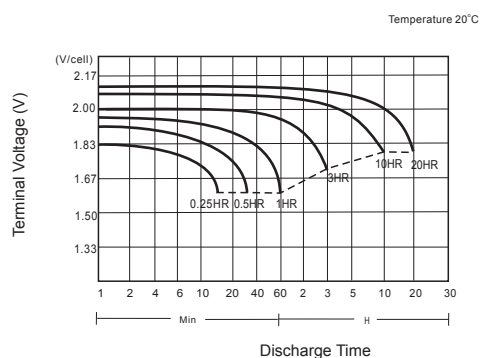
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	316.3	292.9	258.0	218.2	174.9	136.3	125.0	63.8	41.3	33.0	26.9	19.3	15.7	7.7
1.80V/cell	358.7	324.2	280.7	233.6	184.9	142.9	130.6	66.6	43.0	34.5	28.1	20.0	16.2	7.9
1.75V/cell	398.8	346.0	298.0	246.8	191.8	148.0	134.9	68.3	44.3	35.3	28.9	20.3	16.4	8.0
1.70V/cell	442.3	371.8	314.2	256.4	198.1	151.7	137.5	69.6	45.0	35.8	29.3	20.4	16.6	8.0
1.67V/cell	477.6	399.0	329.1	264.1	201.8	153.7	139.5	70.5	45.7	36.2	29.5	20.5	16.7	8.1
1.60V/cell	519.9	428.5	346.5	272.7	207.2	156.6	141.9	71.5	46.3	36.7	29.9	20.7	16.8	8.2

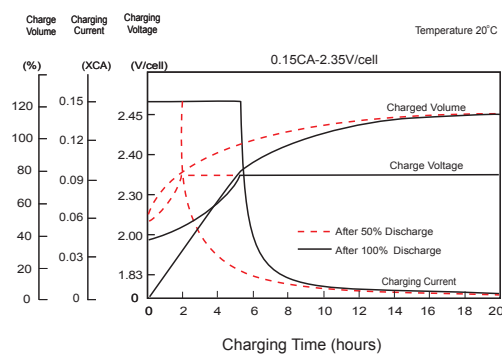
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	627.9	579.4	515.5	438.8	354.6	278.5	256.2	131.6	85.4	68.4	56.2	39.8	32.7	15.2
1.80V/cell	695.6	629.4	552.1	465.2	371.7	288.0	264.4	135.9	87.9	70.2	57.8	40.9	33.1	15.6
1.75V/cell	758.3	660.1	577.5	482.6	378.3	294.3	269.8	137.4	89.3	71.8	58.3	41.4	33.2	15.8
1.70V/cell	837.7	704.9	618.9	508.3	392.0	299.8	272.2	138.6	90.1	71.6	58.6	41.4	33.3	15.9
1.67V/cell	899.9	753.4	643.9	520.3	397.4	302.5	274.5	139.8	90.9	72.5	59.1	41.4	33.5	16.1
1.60V/cell	975.5	805.2	676.3	533.2	404.7	305.5	277.2	140.5	91.4	72.8	59.2	41.8	33.7	16.2

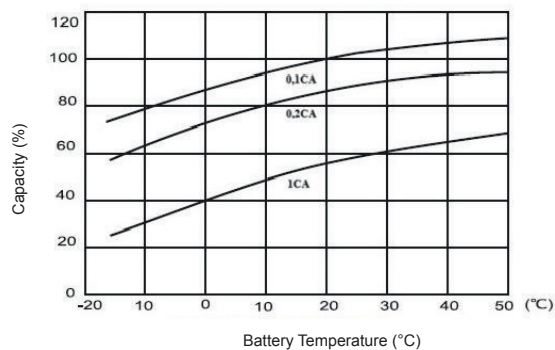
Discharge Characteristics



Charging Characteristics



Effect of Temperature on Capacity



Float Life Characteristics

