

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

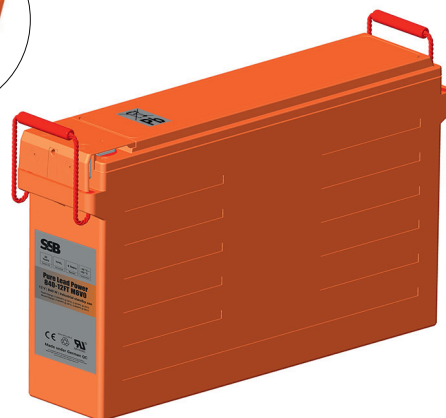
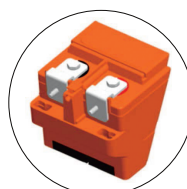
Pure Lead Power

840-12FT M8V0 (12V840W)

Item Nr.: SSB2037909

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



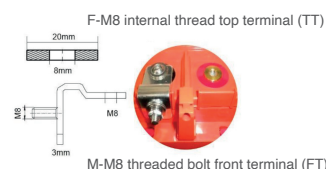
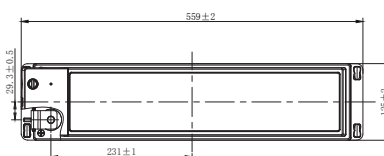
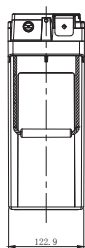
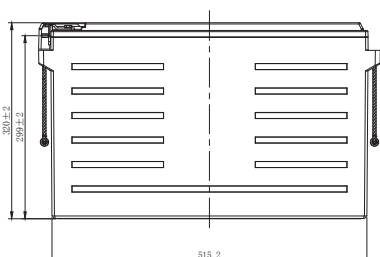
Specifications

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	839.9W/cell (W ₁₅ , 1.60V/cell)	Charging Current	0.1-0.3C
Nominal Capacity	207Ah (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	57.6kg	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	2280A (5 s) 786.7A (30s)		
Short-circuit Current	3800A		
Internal Resistance / Impedance (1kHz)	Approx. 3mΩ (±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 320 Height (320 Height incl. Terminal)

■ TT(F-M8)/FT(M-M8)



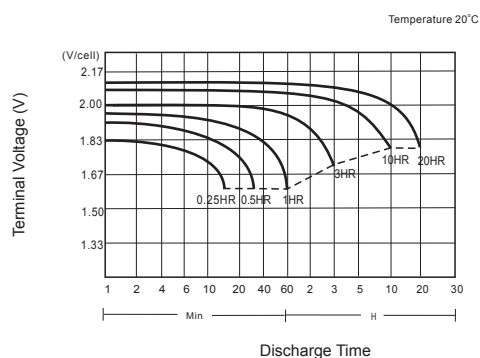
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	418.8	372.2	322.2	262.0	214.5	166.3	136.6	81.4	58.6	45.7	36.1	24.6	20.1	10.1
1.80V/cell	462.7	404.2	354.1	280.5	231.0	175.7	142.9	84.6	60.6	46.7	37.1	25.5	20.7	10.4
1.75V/cell	516.8	433.0	378.1	296.4	240.7	180.4	148.4	86.4	61.7	47.8	37.7	25.9	20.9	10.5
1.70V/cell	552.9	460.7	395.7	310.0	248.6	185.7	151.8	87.6	62.5	48.3	38.2	26.1	21.1	10.5
1.67V/cell	584.1	483.7	409.8	316.8	254.1	189.0	154.2	88.2	63.4	48.5	38.4	26.2	21.3	10.6
1.60V/cell	616.3	510.9	430.3	327.5	264.5	193.9	155.6	89.0	64.4	49.0	38.6	26.3	21.5	10.7

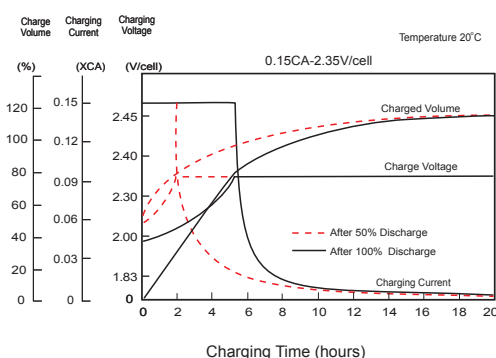
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	831.4	736.4	643.7	526.7	434.9	339.7	280.1	168.0	121.3	94.8	75.3	50.7	41.9	19.8
1.80V/cell	897.4	784.8	696.5	558.4	464.3	354.1	289.2	172.6	123.8	95.3	76.2	52.2	42.3	20.6
1.75V/cell	982.7	826.0	732.6	579.5	474.6	358.8	296.8	173.9	124.6	97.2	76.1	52.9	42.4	20.8
1.70V/cell	1047.1	873.3	779.4	614.4	491.9	367.0	300.5	174.4	125.0	96.6	76.3	52.8	42.3	20.8
1.67V/cell	1100.6	913.3	801.8	624.0	500.3	372.0	303.5	175.0	126.0	97.0	76.7	52.8	42.5	21.0
1.60V/cell	1156.3	960.1	839.9	640.3	516.6	378.3	304.0	175.0	127.2	97.2	76.5	53.0	42.9	21.2

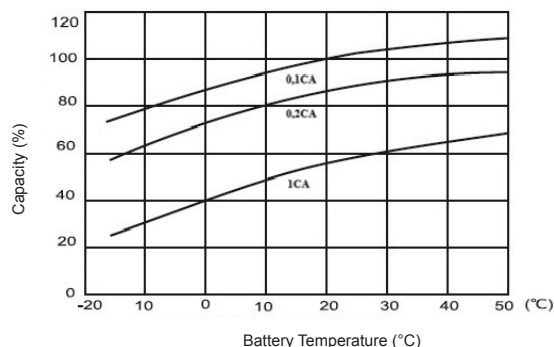
Discharge Characteristics



Charging Characteristics



Effect of Temperature on Capacity



Float Life Characteristics

