

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

Pure Lead Power

790-12FT M8V0 (12V790W)

Item Nr.: SSB2037908

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



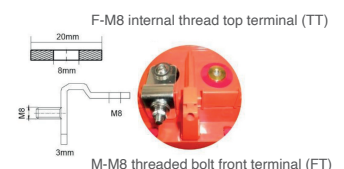
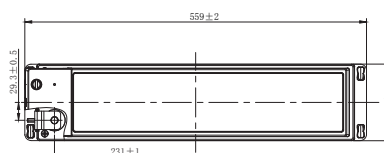
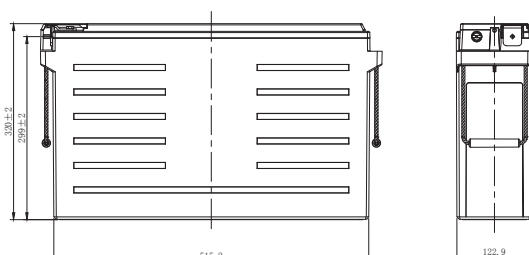
Specifications

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	785.2W/cell (W ₁₅ , 1.60V/cell)	Charging Current	0.1-0.3C
Nominal Capacity	185Ah (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	54.2kg	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	2040A (5 s) 720.6A (30s)		
Short-circuit Current	3400A		
Internal Resistance / Impedance (1kHz)	Approx. 3.6mΩ (±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)



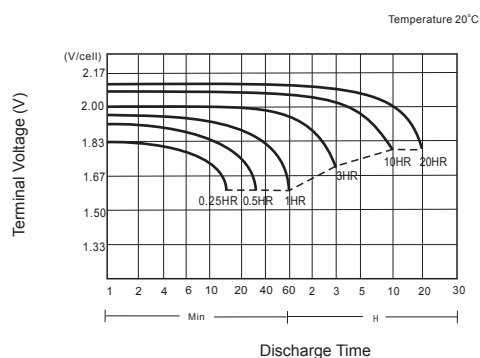
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	384.7	342.3	294.9	235.5	199.0	154.7	127.9	73.6	53.1	41.8	33.6	22.1	17.8	9.3
1.80V/cell	413.2	364.2	317.4	250.4	212.3	162.8	134.4	76.4	54.9	43.2	34.8	22.9	18.5	9.6
1.75V/cell	471.3	402.4	344.5	268.7	223.7	169.7	139.1	78.3	56.1	44.0	35.3	23.2	18.7	9.7
1.70V/cell	519.0	440.7	370.3	285.6	233.6	175.3	142.6	79.8	57.1	44.6	35.9	23.4	19.0	9.8
1.67V/cell	545.0	459.9	382.3	293.5	238.0	177.5	144.2	80.8	57.8	45.0	36.1	23.7	19.1	9.9
1.60V/cell	574.9	486.8	400.3	301.6	245.6	178.4	144.7	80.8	57.8	45.3	36.3	23.8	19.2	9.9

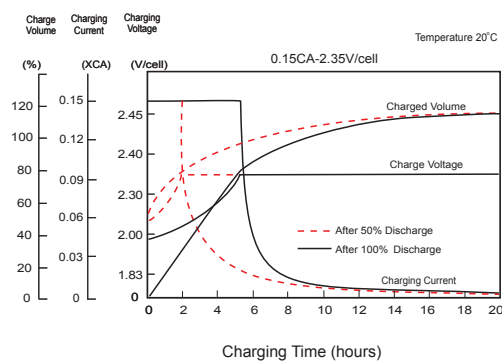
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	763.7	683.8	589.2	473.5	403.5	316.1	262.1	151.9	109.8	86.7	70.1	45.5	37.1	18.2
1.80V/cell	801.4	716.4	624.3	498.6	426.7	328.2	272.1	155.8	112.2	88.0	71.5	46.9	37.8	19.0
1.75V/cell	907.5	779.8	667.6	525.3	441.2	337.6	278.2	157.5	113.1	89.3	71.3	47.3	37.9	19.3
1.70V/cell	999.4	859.4	722.0	566.2	462.3	346.4	282.3	158.9	114.1	89.2	71.7	47.5	37.9	19.5
1.67V/cell	1043.4	898.9	748.0	578.1	468.7	349.3	283.9	160.2	115.0	89.9	72.2	47.8	38.2	19.6
1.60V/cell	1101.6	949.1	785.2	589.6	479.6	348.0	282.7	158.8	114.3	89.9	71.9	47.9	38.4	19.7

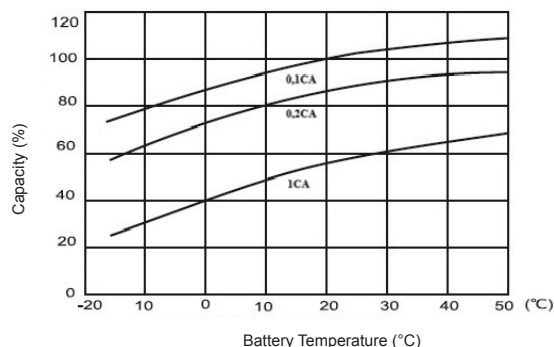
Discharge Characteristics



Charging Characteristics



Effect of Temperature on Capacity



Float Life Characteristics

