

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

Pure Lead Power

280-12FT M8V0 (12V280W)

Item Nr.: SSB2037903

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



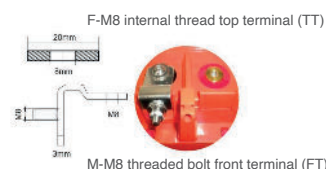
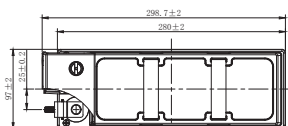
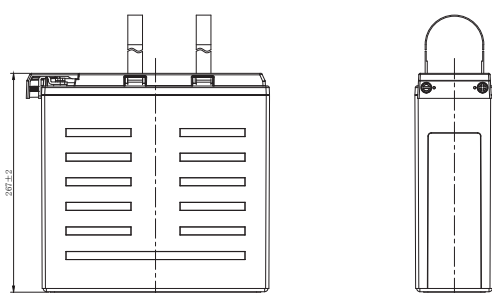
Specifications

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	283.2W/cell (W ₁₅ , 1.60V/cell)	Charging Current	0.1-0.3C
Nominal Capacity	68Ah (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	19.1kg	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	744A (5s) 268.2A (30s)		
Short-circuit Current	1240A		
Internal Resistance / Impedance (1kHz)	Approx. 5.6mΩ (±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: 298.7 Length X 97 Width X 267 Height (267 Height incl. Terminal)

■ TT(F-M8)/FT(M-M8)



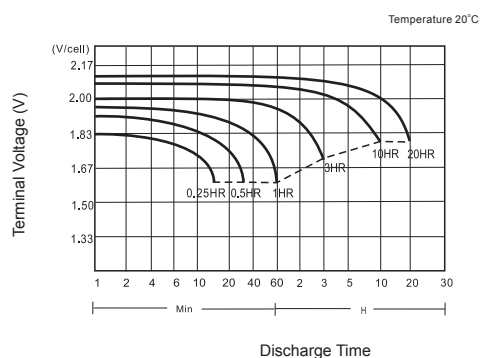
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	146.7	131.2	109.3	89.7	72.3	53.8	42.5	24.2	17.2	13.5	11.1	8.1	6.6	3.3
1.80V/cell	163.2	143.7	120.1	96.1	76.3	56.6	44.1	25.3	18.1	14.2	11.6	8.3	6.8	3.3
1.75V/cell	178.7	150.9	125.7	100.2	78.8	58.2	45.3	26.1	18.4	14.5	11.8	8.4	6.8	3.4
1.70V/cell	189.5	159.0	131.0	103.3	81.1	59.4	46.1	26.4	18.8	14.8	12.0	8.5	6.9	3.4
1.67V/cell	206.5	172.4	139.2	108.2	83.2	60.3	46.8	26.9	19.1	15.0	12.2	8.6	7.0	3.5
1.60V/cell	217.2	181.7	145.1	112.2	87.0	61.5	47.6	27.3	19.2	15.1	12.3	8.6	7.0	3.5

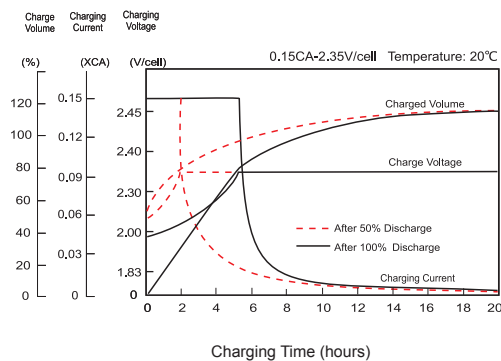
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	291.2	259.6	218.4	180.3	146.5	110.0	87.1	50.0	35.6	28.1	23.2	16.6	13.8	6.5
1.80V/cell	316.5	279.0	236.3	191.3	153.4	114.1	89.2	51.6	37.0	29.0	23.8	17.0	13.8	6.6
1.75V/cell	339.7	287.9	243.6	195.8	155.3	115.7	90.6	52.5	37.2	29.5	23.8	17.2	13.8	6.7
1.70V/cell	358.9	301.4	258.1	204.8	160.4	117.4	91.2	52.6	37.5	29.5	24.0	17.2	13.8	6.8
1.67V/cell	389.1	325.5	272.3	213.0	163.7	118.6	92.2	53.3	38.0	30.0	24.4	17.3	14.0	6.8
1.60V/cell	407.5	341.4	283.2	219.5	169.9	120.0	93.0	53.7	38.0	30.0	24.4	17.4	14.0	6.9

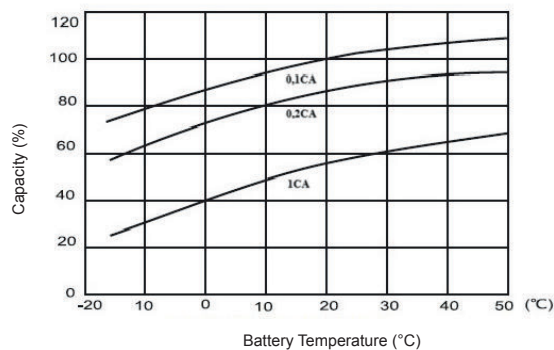
Discharge Characteristics



Charging Characteristics



Effect of Temperature on Capacity



Float Life Characteristics

