

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

Pure Lead Power

180-12FT M8V0 (12V180W)

Item Nr.: SSB2037902

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



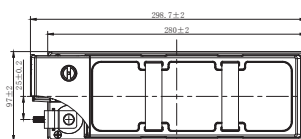
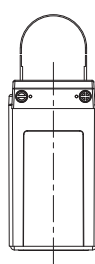
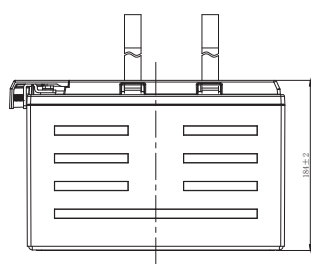
Specifications

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	182.7W/cell (W ₁₅ , 1.60V/cell)	Charging Current	0.1-0.3C
Nominal Capacity	41Ah (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	12.5kg	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	456A (5s) 169.4 A (30s)		
Short-circuit Current	760A		
Internal Resistance / Impedance (1kHz)	Approx. 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 184 Height (184 Height incl. Terminal)

■ TT(F-M8)/FT(M-M8)



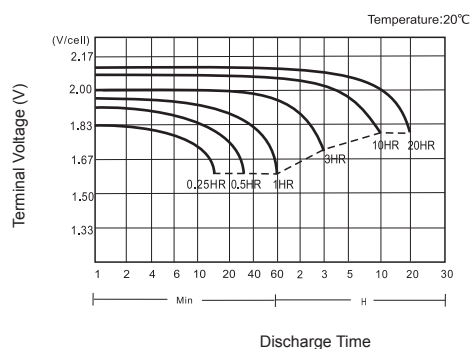
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	94.7	84.7	70.6	57.9	47.0	35.2	27.4	17.6	11.8	9.4	7.2	5.0	4.1	2.2
1.80V/cell	105.3	92.8	77.6	62.0	49.3	36.5	28.4	17.9	11.9	9.5	7.4	5.1	4.1	2.2
1.75V/cell	115.2	97.4	81.1	64.7	50.8	37.5	29.2	18.0	12.0	9.5	7.6	5.2	4.2	2.2
1.70V/cell	122.1	102.5	84.5	66.7	52.3	38.3	29.7	18.2	12.1	9.6	7.7	5.2	4.2	2.3
1.67V/cell	133.2	111.2	89.8	69.8	53.7	39.0	30.2	18.3	12.2	9.6	7.8	5.3	4.3	2.3
1.60V/cell	140.2	117.2	93.6	72.5	56.0	39.6	30.4	18.4	12.3	9.6	8.0	5.4	4.3	2.4

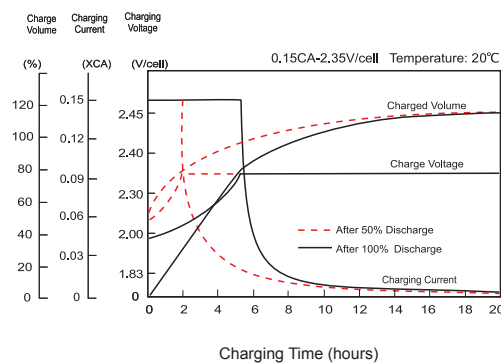
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	188.0	167.5	141.1	116.3	95.2	71.9	56.2	36.1	24.0	19.0	15.1	10.3	8.4	4.3
1.80V/cell	204.3	180.1	152.6	123.3	99.1	73.6	57.5	36.1	24.1	19.1	15.2	10.4	8.4	4.4
1.75V/cell	219.1	185.8	157.1	126.5	100.2	74.6	58.4	36.2	24.2	19.2	15.3	10.6	8.5	4.4
1.70V/cell	231.3	194.3	166.4	132.2	103.4	75.7	58.9	36.2	24.2	19.3	15.5	10.6	8.5	4.5
1.67V/cell	250.9	210.0	175.6	137.5	105.7	76.7	59.4	36.3	24.3	19.3	15.7	10.7	8.6	4.5
1.60V/cell	263.0	220.3	182.7	141.7	109.4	77.3	59.7	36.3	24.4	19.4	15.8	10.8	8.7	4.7

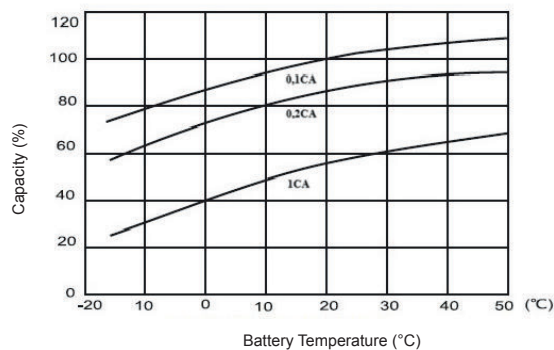
Discharge Characteristics



Charging Characteristics



Effect of Temperature on Capacity



Float Life Characteristics

