



Pure Lead Power 520-12 M8V0 (12V520W)

Item Nr.: SSB2037955

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

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



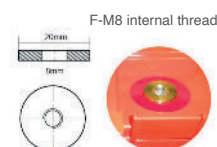
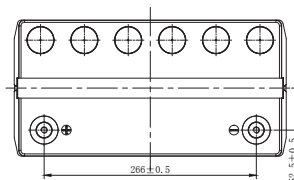
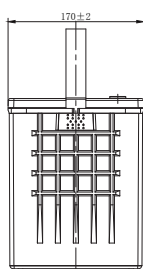
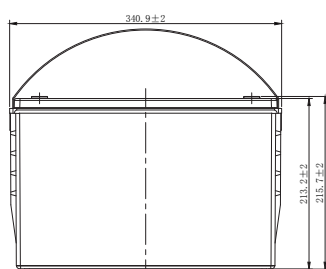
Specifications

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	524.8W/cell (W ₁₅ , 1.60V/cell)	Charging Current	0.1-0.3C
Nominal Capacity	108Ah (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	33.5kg	Life Expectancy	>12 years according to EUROBAT (Very Long Life) 15 years Design Life
Terminal	F-M8		
Container Material	ABS UL94 V0		
Max. Discharge Current	1200A (5 s) 583.3A (30s)		
Short-circuit Current	2200A		
Internal Resistance / Impedance (1kHz)	Approx. 3.5mΩ (±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: 340.9 Length X 170 Width X 213.2 Height (215.7 Height incl. Terminal)

■ TT(F-M8)



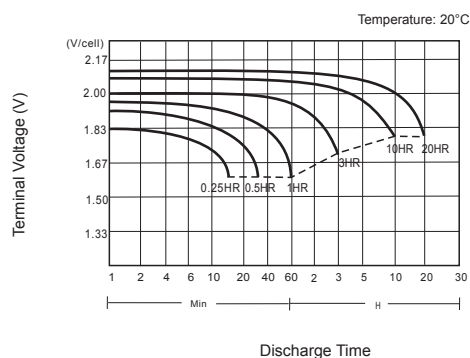
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	306.0	238.1	193.6	165.2	120.5	91.2	72.5	40.8	29.3	23.4	19.0	12.9	10.6	5.5
1.80V/cell	359.0	272.0	215.7	180.6	128.8	95.8	75.4	42.8	30.6	24.4	19.9	13.3	10.8	5.6
1.75V/cell	392.5	300.5	233.7	194.5	137.1	98.5	77.5	44.0	31.3	25.1	20.3	13.5	10.9	5.7
1.70V/cell	422.8	322.0	248.6	204.6	142.3	102.1	80.6	44.6	32.0	25.5	20.6	13.6	11.1	5.7
1.67V/cell	472.0	342.2	262.3	212.4	148.1	106.1	82.3	45.5	32.3	25.8	20.8	13.8	11.1	5.8
1.60V/cell	510.1	357.4	271.1	218.4	151.0	107.7	83.7	46.1	32.7	26.1	21.1	13.9	11.2	5.8

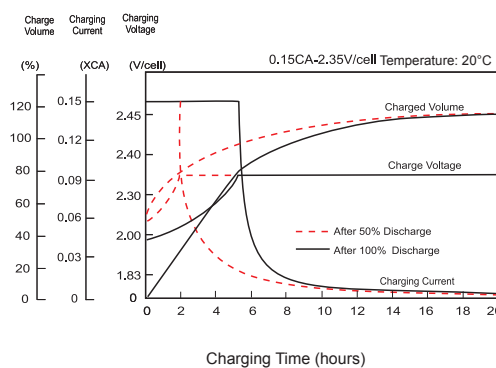
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	607.6	471.0	386.7	332.2	244.4	186.2	148.5	84.3	60.6	48.6	39.7	26.4	22.1	10.9
1.80V/cell	696.2	528.1	424.3	359.5	259.0	193.1	152.6	87.3	62.4	49.8	40.9	27.2	22.0	11.1
1.75V/cell	746.3	573.2	452.9	380.2	270.3	195.9	155.1	88.5	63.2	50.9	41.0	27.5	22.1	11.3
1.70V/cell	800.7	610.4	489.8	405.6	281.6	201.7	159.4	88.8	63.9	51.0	41.3	27.6	22.2	11.4
1.67V/cell	878.0	646.2	513.3	418.5	291.5	208.7	162.0	90.1	64.2	51.6	41.7	27.9	22.2	11.5
1.60V/cell	946.8	671.6	524.8	427.1	294.8	210.1	163.5	90.6	64.7	51.9	41.7	28.1	22.5	11.5

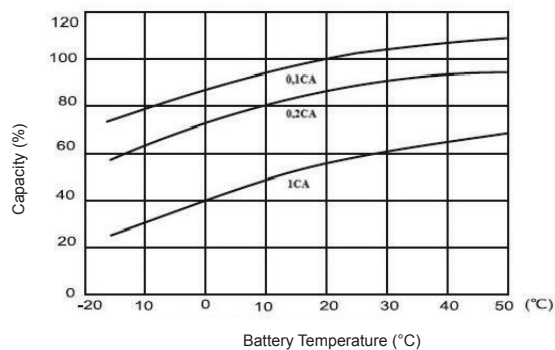
Discharge Characteristics



Charging Characteristics



Effect of Temperature on Capacity



Float Life Characteristics

