

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

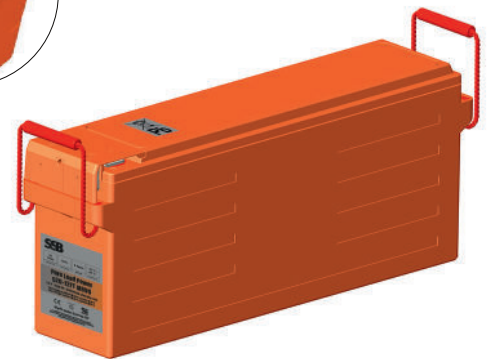
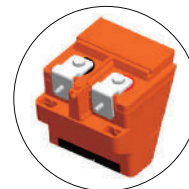
Pure Lead Power

520-12FT M8V0 (12V520W)

Item Nr.: SSB2037906

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



Conform to
IEC60896-21&22

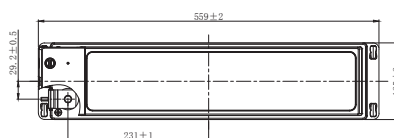
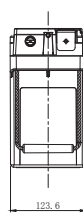
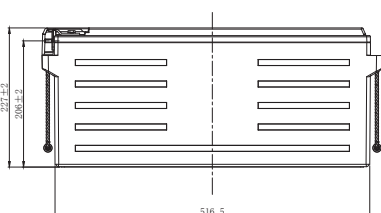
Specifications

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	517.9W/cell (W ₁₅ , 1.60V/cell)	Charging Current	0.1-0.3C
Nominal Capacity	120Ah (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	36.5kg	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	1320A (5s) 483.7A (30s)		
Short-circuit Current	2200A		
Internal Resistance / Impedance (1kHz)	Approx. 4mΩ (±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 227 Height (227 Height incl. Terminal)

■ TT(F-M8)/FT(M-M8)



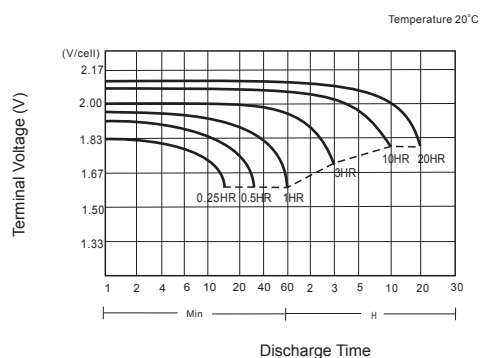
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	259.9	232.2	195.5	159.8	133.3	98.9	74.9	47.8	34.0	27.2	22.1	14.3	11.9	5.9
1.80V/cell	291.8	256.1	218.7	173.0	139.8	104.5	79.9	49.7	35.4	27.6	22.3	14.6	12.0	6.0
1.75V/cell	326.9	276.0	230.3	185.0	148.9	109.2	83.5	51.2	36.3	28.3	22.6	15.0	12.2	6.1
1.70V/cell	354.1	297.4	243.7	194.9	154.9	112.1	84.6	52.5	37.0	28.7	22.9	15.2	12.4	6.2
1.67V/cell	376.0	314.0	253.7	199.7	160.4	113.8	85.6	52.7	37.6	29.0	23.5	15.4	13.0	6.2
1.60V/cell	396.5	331.6	265.3	207.4	164.9	114.9	86.8	53.2	38.1	29.2	23.8	15.6	13.2	6.3

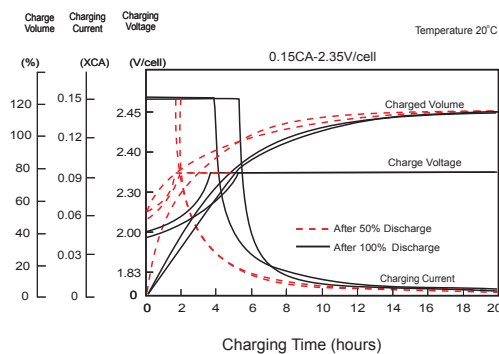
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	516.0	459.3	390.5	321.3	270.3	202.1	153.6	98.8	70.3	56.3	45.3	29.2	24.3	11.5
1.80V/cell	565.9	497.1	430.2	344.5	281.0	210.5	161.8	101.5	72.3	56.3	45.5	29.9	24.5	11.9
1.75V/cell	621.6	526.5	446.4	361.7	293.7	217.3	166.9	103.0	73.3	57.5	45.5	30.7	24.7	12.0
1.70V/cell	670.6	563.9	480.0	386.3	306.4	221.6	167.4	104.3	73.9	57.5	45.8	30.7	24.9	12.2
1.67V/cell	708.6	592.9	496.3	393.4	315.8	223.9	168.5	104.5	74.8	57.9	47.1	31.0	25.9	12.3
1.60V/cell	743.9	623.1	517.9	405.5	321.9	224.1	169.6	104.7	75.2	57.9	47.1	31.4	26.4	12.5

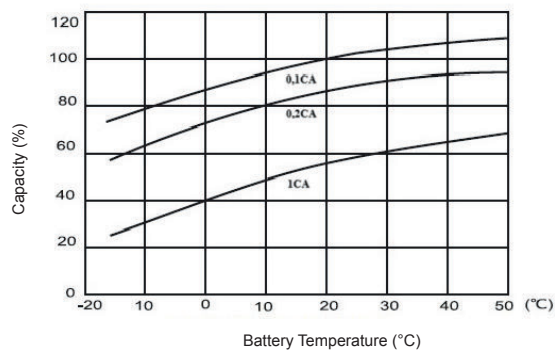
Discharge Characteristics



Charging Characteristics



Effect of Temperature on Capacity



Float Life Characteristics

