

<b>20 Years</b> Design Life	<b>TPPL</b> Technology	<b>5 Years</b> Warranty*	<b>-40 °C ~ +65 °C</b> Temperature
High Rate Type	UPS	Emergency Lighting	Recyclable

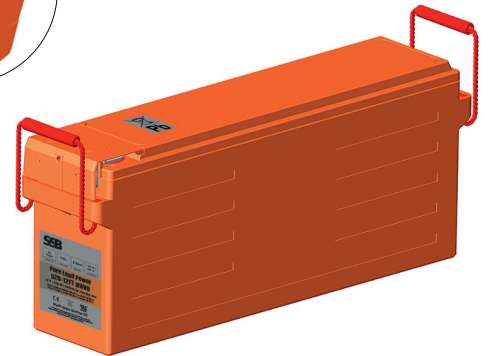
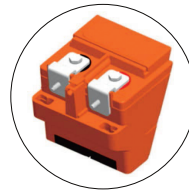
# Pure Lead Power

## 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

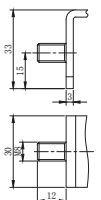
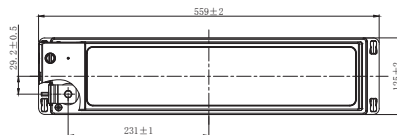
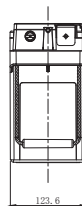
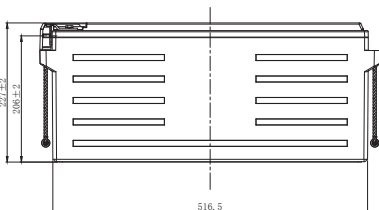
### Specifications

<b>Nominal Voltage</b>	12V	<b>Float Charge</b>	2.285V/cell @ 20°C, 2.27V/cell @ 25°C Max. Charging Current: 0.1 - 0.3C Temperature Coefficient: -3mV/cell/°C
<b>Nominal Rate</b>	517.9W/cell (W <sub>15</sub> , 1.60V/cell)	<b>Boost Charge</b>	2.395V/cell@20°C, 2.375V/cell@25°C Max. Charging Current: 0.1 - 0.3C Temperature Coefficient: -4mV/cell/°C
<b>Nominal Capacity</b>	120Ah (C <sub>10</sub> , 1.80V/cell)	<b>Self Discharge</b>	SSB Battery PLP batteries may be stored for up to 24 months at 20°C (self-discharge per month ≤0.5%) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
<b>Approx. Weight</b>	36.5kg	<b>Life Expectancy</b>	>12 years according to EUROBAT (Very Long Life) 20 years Design Life
<b>Terminal</b>	FT (M-M8)/TT (F-M8)		
<b>Container Material</b>	ABS UL94 V0		
<b>Max. Discharge Current</b>	1320A (5s) 483.7A (30s)		
<b>Short-circuit Current</b>	2200A		
<b>Internal Resistance / Impedance (1kHz)</b>	Approx. 4mΩ		
<b>Nominal Oper. Temp. R.</b>	20±2°C		
<b>Operating Temp. Range</b>	Discharge: -40~65°C Charge: -20~45°C Storage: 5~30°C		

### Dimensions

#### ■ FT (M-M8)/TT (F-M8) Terminal

Unit: mm | Dimensions: 559 Length X 125 Width X 227 Height (227 Height incl. Terminal)



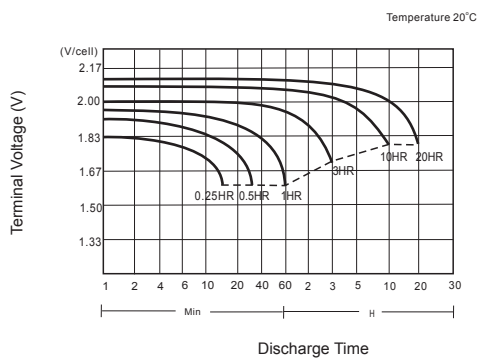
### Constant Current Discharge (Amperes) at 20°C

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
1.65V/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

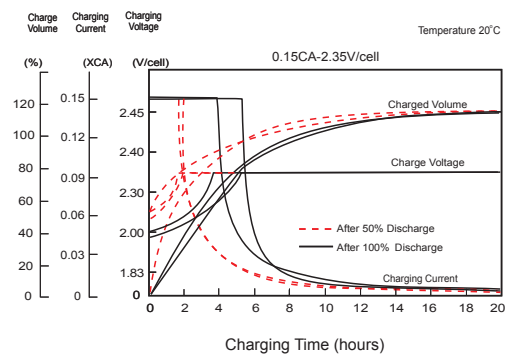
### Constant Power Discharge (Watts/cell) at 20°C

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
1.65V/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

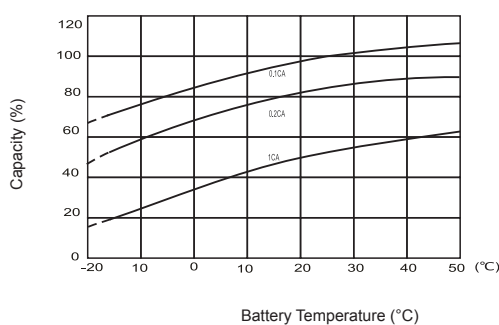
### Discharge Characteristics



### Float Charging Characteristics



### Effect of Temperature on Capacity



### Self Discharge Characteristics

