

# Pure Lead Power 450-12 M8V0 (12V450W)

Item Nr.: SSB2037954



## 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



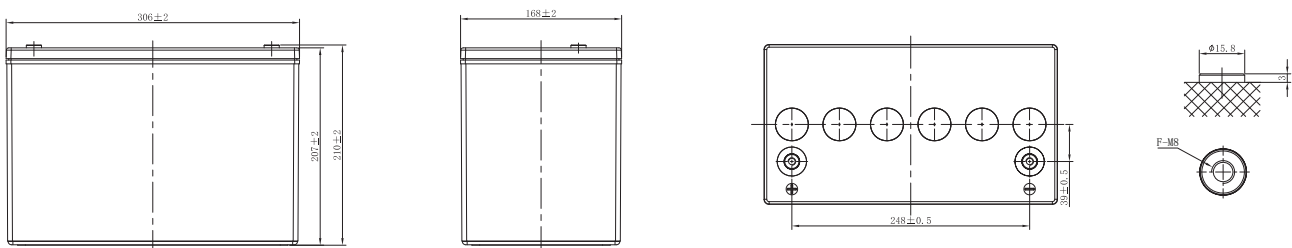
## Specifications

<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>	447W/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>	95 Ah (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>	30.0kg	<b>Life Expectancy</b>	>12 years according to EUROBAT (Very Long Life) 15 years Design Life
<b>Terminal</b>	F-M8		
<b>Container Material</b>	ABS UL94 V0		
<b>Max. Discharge Current</b>	1080A (5 s) 519.7A (30s)		
<b>Short-circuit Current</b>	1980A		
<b>Internal Resistance / Impedance (1kHz)</b>	Approx. 3.8mΩ		
<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

### ■ F-M8 Terminal

Unit: mm | Dimensions: 306 Length X 168 Width X 207 Height (210 Height incl. Terminal)



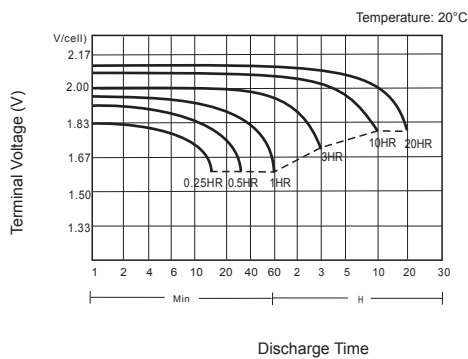
### Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	268.9	202.2	169.3	144.8	107.7	79.8	63.6	35.2	25.1	20.1	17.2	11.3	9.4	5.0
1.80V/cell	315.5	230.9	188.7	158.2	115.0	83.9	66.1	36.8	26.3	21.0	17.9	11.8	9.5	5.1
1.75V/cell	348.1	255.1	204.4	170.4	123.6	86.3	68.1	37.8	26.9	21.5	18.3	12.0	9.7	5.1
1.70V/cell	375.1	275.9	217.5	179.2	128.3	89.4	70.7	38.4	27.5	21.9	18.6	12.1	9.9	5.2
1.65V/cell	418.6	287.9	223.3	184.5	133.5	92.9	72.2	39.0	27.8	22.3	18.8	12.2	10.1	5.2
1.60V/cell	448.2	298.2	230.9	189.6	136.1	94.3	73.5	39.6	28.1	22.5	19.0	12.3	10.1	5.3

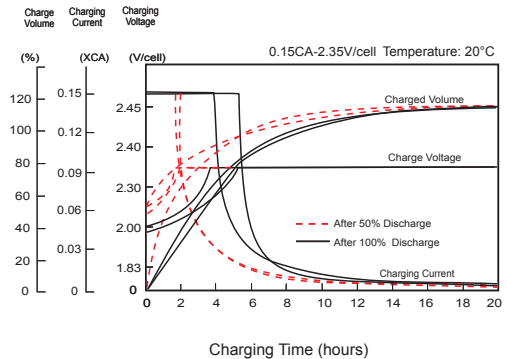
### Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	533.9	400.0	338.2	291.2	218.3	163.1	130.4	72.7	52.0	41.7	35.8	23.3	19.7	9.8
1.80V/cell	612.0	448.3	371.2	315.0	231.2	169.1	133.9	75.0	53.7	42.8	36.8	24.1	19.5	10.0
1.75V/cell	661.9	486.6	396.1	333.1	243.8	171.6	136.1	76.2	54.3	43.7	37.0	24.4	19.6	10.2
1.70V/cell	710.3	523.1	428.5	355.2	253.8	176.7	139.9	76.4	54.9	43.9	37.1	24.5	19.8	10.3
1.65V/cell	778.8	543.7	436.9	363.4	262.9	182.8	142.1	77.3	55.2	44.5	37.5	24.6	20.2	10.3
1.60V/cell	832.0	560.4	447.0	370.8	265.9	184.0	143.5	77.9	55.5	44.6	37.6	24.8	20.3	10.4

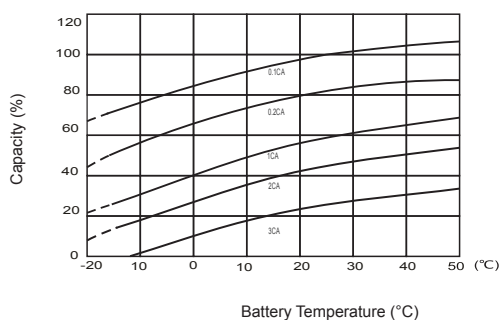
### Discharge Characteristics



### Float Charging Characteristics



### Effect of Temperature on Capacity



### Self Discharge Characteristics

