Pure Lead Power 450-12 M8V0 (12V450W)

Item Nr.: SSB2037954

15 Years	TPPL	5 Years	-35 °C ~ +65 °C
Design Life	Technology	Warranty*	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

MH46465 Conform to IEC60896-21&22

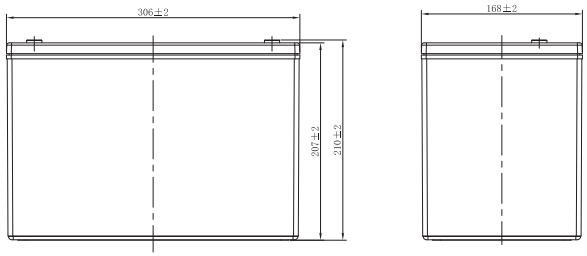
Specifications

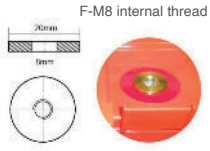
Nominal Voltage	12V
Open-circuit voltage	12.96V (fully charged)
Nominal Rate	447W/cell (W_{15}, 1.60V/cell)
Nominal Capacity	95 Ah (C_{10}, 1.80V/cell)
Approx. Weight	30.0kg
Terminal	F-M8
Container Material	ABS UL94 V0
Max. Discharge Current	1080A (5 s) 519.7A (30s)
Short-circuit Current	1980A
Internal Resistance / Impedance (1kHz)	Approx. 3.8mΩ (±10 %)
Nominal Oper. Temp. R.	20±2°C
Operating Temp. Range	Discharge: -35°~65°C Charge: -20~45°C Storage: 5~30°C

Float Charge	2.285V/cell @ 20°C, 2.270V/cell @ 25°C Temperature coefficient: -3mV/cell/°C
Boost Charge	2.395V/cell @ 20°C, 2.375V/cell @ 25°C Temperature coefficient: -4mV/cell/°C
Charging Current	0.1-0.3C
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.
Life Expectancy	>12 years according to EUROBAT (Very Long Life) 15 years Design Life

Dimensions

- Unit: mm | Dimensions: 306 Length X 168 Width X 207 Height (210 Height incl. Terminal)
- TT(F-M8)





Specifications subject to change without notice.
* In compliance with the instruction manual and warranty conditions.

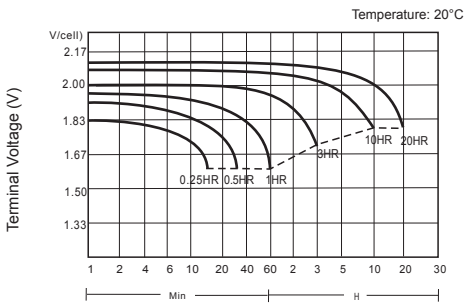
Constant Current Discharge (Amperes) at 20°C

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
1.67V/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

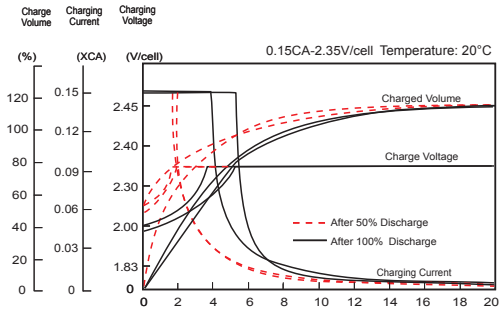
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	533.9	400.0	338.2	291.2	218.3	163.1	130.4	72.7	52.0	41.7	35.8	23.3	19.7	9.8
1.80V/cell	612.0	448.3	371.2	315.0	231.2	169.1	133.9	75.0	53.7	42.8	36.8	24.1	19.5	10.0
1.75V/cell	661.9	486.6	396.1	333.1	243.8	171.6	136.1	76.2	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
1.67V/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



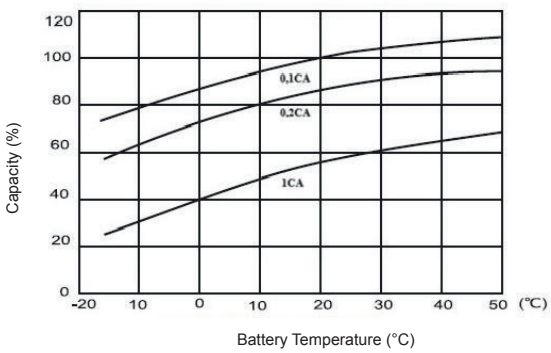
Discharge Time

Charging Characteristics



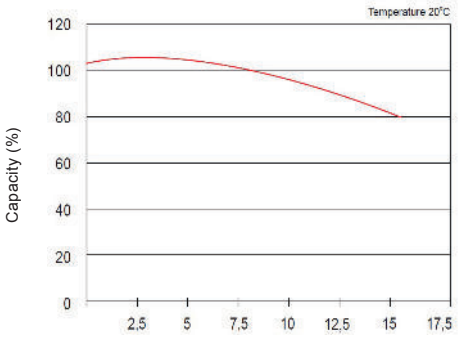
Charging Time (hours)

Effect of Temperature on Capacity



Battery Temperature (°C)

Float Life Characteristics



Float Life (year)