

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

Pure Lead Power

420-12FT M8V0 (12V420W)

Item Nr.: SSB2037904

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



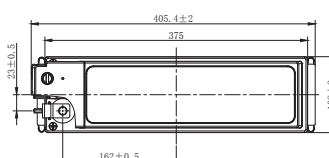
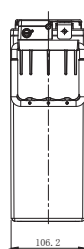
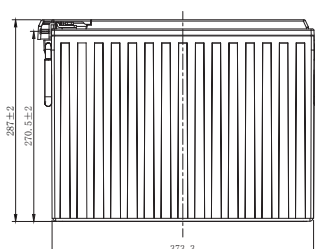
Specifications

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	423.8W/cell (W ₁₅ , 1.60V/cell)	Charging Current	0.1-0.3C
Nominal Capacity	98Ah (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	28.7kg	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	1080A (5s) 395.8A (30s)		
Short-circuit Current	1800A		
Internal Resistance / Impedance (1kHz)	Approx. 4.6mΩ (±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: 405.4 Length X 108 Width X 287 Height (287 Height incl. Terminal)

■ TT(F-M8)/FT(M-M8)



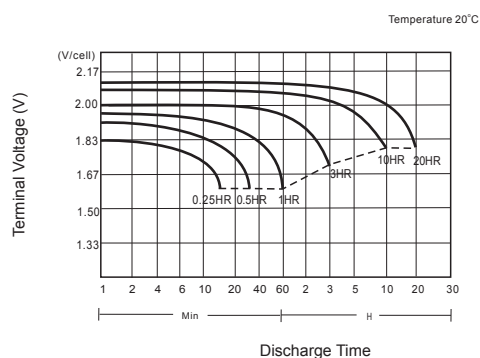
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	212.6	189.9	159.9	130.8	109.1	82.5	60.7	39.2	27.9	22.3	17.7	11.7	9.7	4.8
1.80V/cell	238.7	209.5	178.9	141.5	114.4	87.2	63.3	40.6	29.0	22.5	17.9	12.0	9.8	4.9
1.75V/cell	267.3	225.8	188.5	151.4	121.9	91.2	65.6	41.8	29.7	22.9	18.1	12.3	10.0	5.0
1.70V/cell	287.4	241.0	199.4	159.4	126.7	94.5	67.3	42.6	30.0	23.1	18.2	12.3	10.2	5.0
1.67V/cell	307.7	256.9	207.5	163.4	131.2	95.9	69.2	43.2	30.9	23.3	18.7	12.5	10.6	5.1
1.60V/cell	324.5	271.4	217.1	169.7	134.8	97.8	70.4	43.5	31.2	23.4	19.1	12.8	10.8	5.2

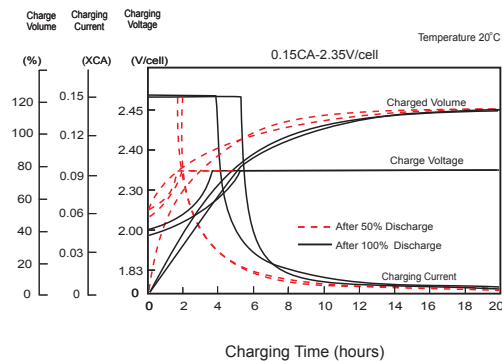
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	422.0	375.6	319.5	263.0	221.2	168.5	124.5	80.9	57.7	45.8	36.3	24.0	19.9	9.4
1.80V/cell	462.9	406.7	351.8	281.8	230.0	175.8	128.1	82.9	59.2	45.9	36.4	24.5	20.0	9.7
1.75V/cell	508.4	430.7	365.4	296.0	240.4	181.5	131.2	84.2	60.0	46.0	36.5	25.0	20.3	9.8
1.70V/cell	544.4	457.0	392.9	316.0	250.7	186.7	133.1	84.9	60.2	46.2	36.6	25.0	20.4	10.0
1.67V/cell	579.9	485.2	405.9	321.8	258.4	188.7	136.1	85.6	61.3	46.6	37.5	25.3	21.2	10.1
1.60V/cell	608.9	510.0	423.8	331.8	263.3	190.8	137.5	86.0	61.6	46.7	37.8	25.7	21.6	10.2

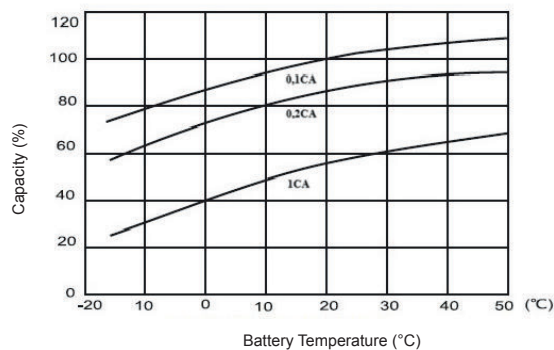
Discharge Characteristics



Charging Characteristics



Effect of Temperature on Capacity



Float Life Characteristics

