



Pure Lead Power 690-12 M8V0 (12V690W)

Item Nr.: SSB2037986

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



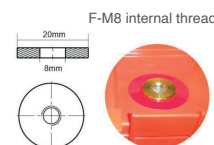
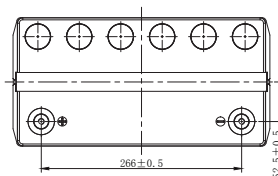
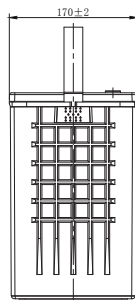
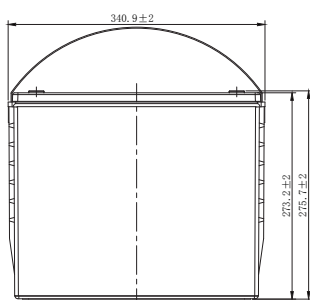
Specifications

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	685.7W/cell (W ₁₅ , 1.60V/cell)	Charging Current	0.1-0.3C
Nominal Capacity	146Ah (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	43.5kg	Life Expectancy	>12 years according to EUROBAT (Very Long Life) 15 years Design Life
Terminal	F-M8		
Container Material	ABS UL94 V0		
Max. Discharge Current	1620A (5s) 699.6A (30s)		
Short-circuit Current	2970A		
Internal Resistance / Impedance (1kHz)	Approx. 3.5mΩ (±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: 340.9 Length X 170 Width X 273.2 Height (275.7 Height incl. Terminal)

■ TT(F-M8)



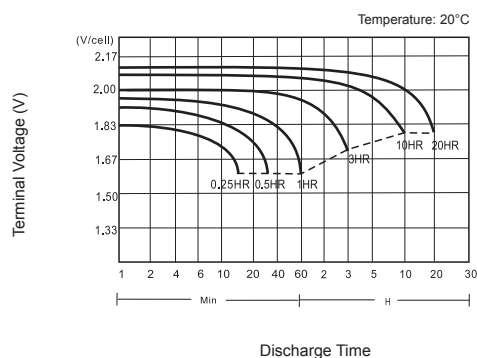
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	345.1	298.7	251.0	216.4	166.2	120.4	95.5	52.5	38.8	30.1	26.0	17.5	14.3	7.4
1.80V/cell	405.9	341.2	279.8	236.5	177.6	126.5	99.4	55.0	40.4	31.3	27.2	18.1	14.6	7.6
1.75V/cell	456.0	377.0	300.5	252.3	189.0	130.1	102.2	56.6	41.5	32.2	27.9	18.4	14.8	7.7
1.70V/cell	491.3	403.9	322.5	265.4	196.2	134.9	106.1	57.3	42.2	32.7	28.2	18.6	15.0	7.7
1.67V/cell	533.5	429.3	339.2	275.7	204.1	140.2	108.4	58.4	42.8	33.2	28.5	18.8	15.1	7.8
1.60V/cell	576.6	452.3	354.2	283.4	208.1	146.1	110.3	59.3	43.3	33.6	28.8	18.9	15.1	7.9

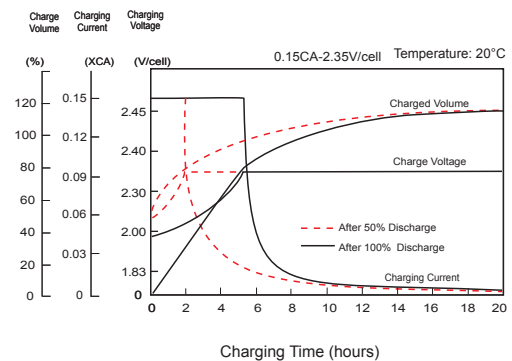
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	685.2	590.9	501.5	435.0	337.0	246.1	195.7	108.4	80.2	62.4	54.3	36.0	29.8	14.7
1.80V/cell	787.1	662.5	550.4	470.9	356.9	255.0	201.1	112.2	82.5	63.9	56.0	37.1	29.7	15.0
1.75V/cell	867.1	719.1	582.3	493.4	372.7	258.8	204.3	113.9	83.7	65.4	56.2	37.4	29.9	15.2
1.70V/cell	930.4	765.7	635.3	526.2	388.3	266.5	209.9	114.2	84.5	65.4	56.4	37.6	30.0	15.3
1.67V/cell	992.5	810.8	663.6	543.0	401.9	275.9	213.5	115.8	85.0	66.3	57.0	37.9	30.2	15.5
1.60V/cell	1070.3	850.0	685.7	554.0	406.4	285.1	215.4	116.5	85.6	66.7	57.1	38.1	30.2	15.6

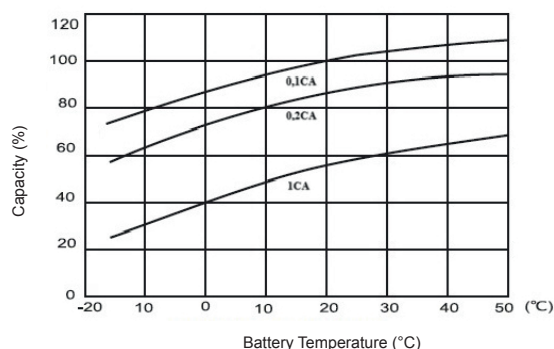
Discharge Characteristics



Charging Characteristics



Effect of Temperature on Capacity



Float Life Characteristics

