

BAT 12 V 130 Ah DATASHEET

Designation	BAT PBE 12 V 130 Ah	Code	9729121100
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> Electrical characteristics

Rated voltage	12 V
Rated capacity (20 h)	124.8 Ah
Capacity	124.8 Ah/6.24 A (20 h, 1.75 V/element, 25°C)
	120.0 Ah/12.0 A (10 h, 1.8 V/element, 25°C)
Maximum discharge current	1300 A (for 5 s)
Internal resistance	4.0 mΩ (approx.)

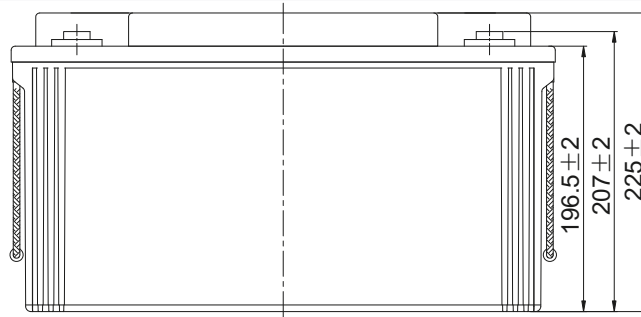
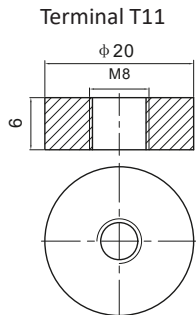
> Environmental specifications

Service life	3 to 5 years	
Recommended temperatures	Discharge *	-15°C to 50°C
	Charge *	-5°C to 50°C
	Storage *	-15°C to 40°C
	* Optimum	25 ± 3°C
Floating	Voltage of 14.4 V to 15.0 V at 25°C with temperature coefficient of -20 mV/°C	
Temperature / Capacity	40°C	103%
	25°C	100%
	0°C	86%
Self-discharge	The battery must not be stored for longer than 6 months at 25°C	

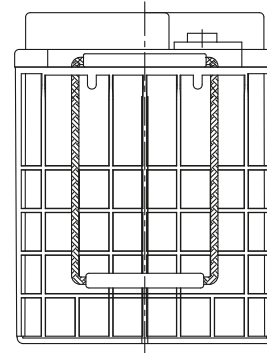
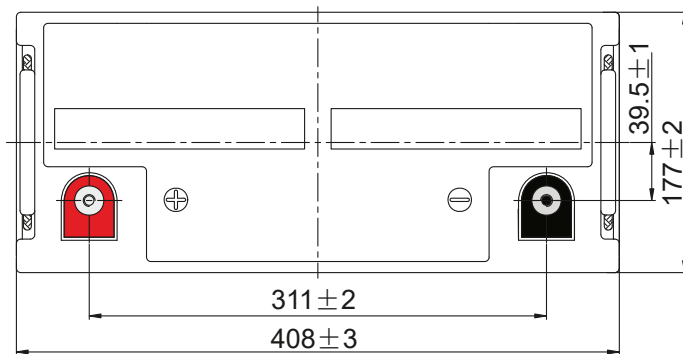
> Mechanical specifications

Weight	34.0 kg
Compartment and cover material	ABS UL94V-0

Dimensions (mm)



Tightening torque: 8 to 9 Nm



BAT 12 V 120 Ah DATASHEET

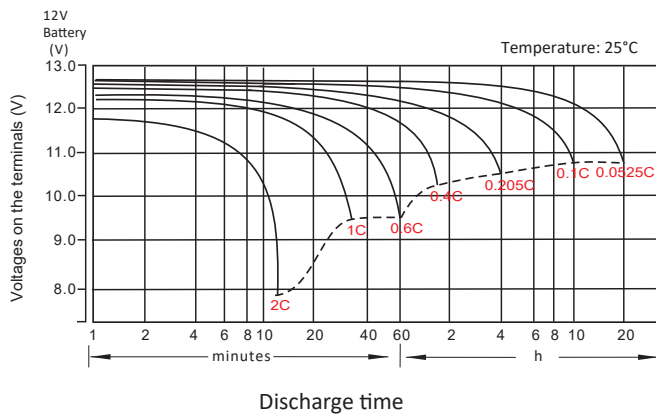
> Constant Current Discharge (A) at 25°C

	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.85 V/element	205.4	161.5	137.3	114.9	91.3	69.1	56.6	36.0	28.5	23.3	18.8	16.3	13.3	11.3	6.18
1.80 V/element	275.7	206.3	165.9	135.8	107.7	80.4	63.4	39.3	30.7	24.8	20.1	17.5	14.1	12.0	6.24
1.75 V/element	310.8	226.7	181.2	146.1	111.8	83.4	66.3	40.8	31.2	25.4	20.6	18.0	14.3	12.1	6.30
1.70 V/element	342.3	247.1	193.5	153.5	116.4	86.7	68.4	42.4	32.1	26.1	21.2	18.4	14.5	12.2	6.42
1.65 V/element	377.4	266.7	205.7	163.1	122.8	88.9	70.7	43.6	33.5	27.0	21.8	18.8	14.7	12.5	6.50
1.60 V/element	416.3	289.5	220.0	173.7	129.6	92.6	73.2	45.1	34.5	27.8	22.5	19.2	14.9	12.6	6.54

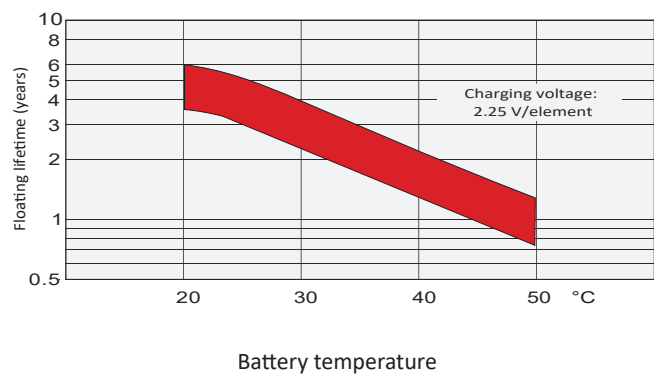
> Constant Power Discharge (W/element) at 25°C

	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.85 V/element	375.5	298.3	256.2	216.5	174.0	132.8	109.1	70.0	55.5	45.5	36.8	32.1	26.2	22.4	12.2
1.80 V/element	498.7	376.6	305.4	252.2	202.2	153.2	121.6	75.9	59.4	48.3	39.3	34.3	27.7	23.7	12.3
1.75 V/element	550.3	407.2	329.5	268.7	208.1	157.5	126.6	78.4	60.3	49.2	40.2	35.1	28.1	23.9	12.4
1.70 V/element	589.2	433.8	346.9	280.2	215.4	163.2	130.2	81.3	61.9	50.4	41.1	35.8	28.5	24.1	12.7
1.65 V/element	640.5	463.8	366.0	295.5	225.4	165.8	133.6	83.1	64.2	52.0	42.1	36.5	28.8	24.6	12.8
1.60 V/element	690.1	492.1	385.0	311.3	236.3	171.8	137.6	85.5	65.9	53.4	43.4	37.2	29.1	24.8	12.9

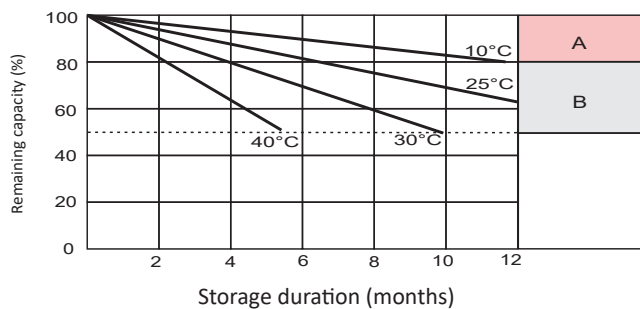
> Discharge Characteristics



> Effects of Temperature / Long Term Floating



> Self-Discharge Characteristics



- A** Perform a top-up charge before use if 100% of the capacity is required.
- B** It is essential to fully recharge the battery before use.