

Advantages

- Long life according to EUROBAT Classification
- Maximum charge efficiency
- High gas recombination efficiency
- Low self-discharge rate
- Easy installation and handling
- Vertical or horizontal installation

Application

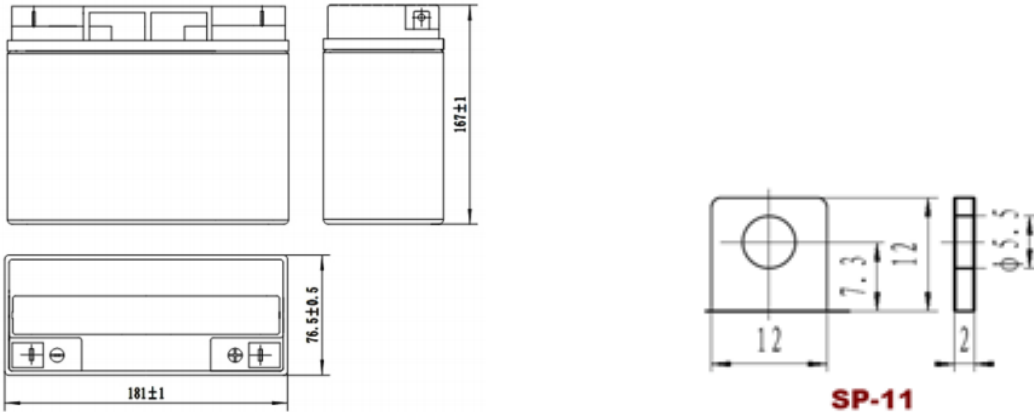
- UPS units
- Emergency power
- Starting generators
- EPS units

Standards

- IEC 61056-1/2: 2002
- JIS C8702-1/2:2009
- Eurobat guide
- Installation compliant with EN50272-2



Drawing



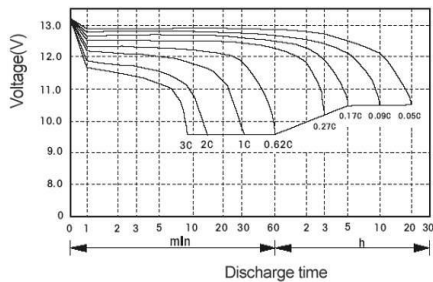
Specification

Battery Model	SP12-18			
Design Life (Years,25°C)	10			
Capacity (Ah, 25°C)	20HR(0.954A,1.8V)	10HR(1.8A,1.8V)	5HR(3.12A,1.75V)	1HR(11.1A,1.60V)
	19.08	18.0	15.62	11.1
Dimensions (mm)	Length	Width	Height	Total Height
	181	76.5	167	167
Approx. Weight (kg)	5.7			
Internal Resistance (mΩ)	16.0			
Maximum Discharge Current (A/5 Sec.)	270			
Self-Discharge (25°C)	≤3% per months			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.40 (-4mV/°C/cell), max charge current:5.4A		2.27 (-3mV/°C/cell)	

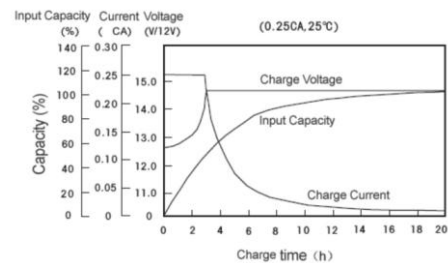
Discharge Data

Constant current discharge data (25°C, A)													
End volt (V/cell)	10min	15min	20min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60	41.6	31.0	25.0	19.2	13.7	11.1	6.83	5.23	3.40	2.92	2.23	1.89	0.999
1.65	38.3	29.0	23.4	18.1	13.1	10.7	6.60	5.08	3.29	2.86	2.21	1.87	0.994
1.70	35.5	27.3	22.1	17.2	12.8	10.3	6.42	4.87	3.20	2.80	2.18	1.84	0.981
1.75	32.6	25.6	21.0	16.5	12.3	10.0	6.18	4.74	3.12	2.74	2.15	1.82	0.963
1.80	29.7	23.4	19.5	15.9	11.9	9.58	5.96	4.65	3.04	2.67	2.11	1.80	0.954
1.85	23.2	19.4	16.5	13.5	10.2	8.56	5.46	4.33	2.83	2.49	1.99	1.70	0.945

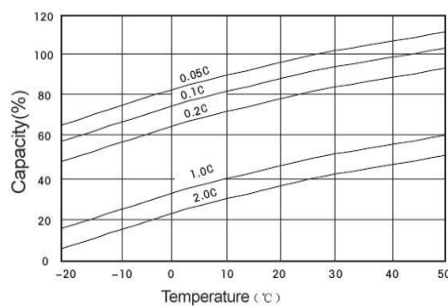
Constant power discharge data (25°C, W/cell)													
End volt (V/cell)	10min	15min	20min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60	72.2	55.4	45.6	35.6	25.9	21.2	13.2	10.2	6.68	5.76	4.44	3.79	2.00
1.65	68.0	52.7	43.3	33.9	24.9	20.6	12.8	9.92	6.48	5.65	4.41	3.76	1.99
1.70	63.6	49.9	41.1	32.4	24.5	20.1	12.5	9.56	6.33	5.55	4.35	3.69	1.97
1.75	59.7	47.4	39.4	31.3	23.7	19.5	12.1	9.32	6.18	5.44	4.29	3.65	1.94
1.80	55.2	43.9	36.9	30.4	23.0	18.7	11.7	9.18	6.04	5.32	4.23	3.62	1.92
1.85	43.7	36.8	31.7	26.2	20.0	16.8	10.8	8.58	5.65	4.97	4.00	3.42	1.91

Performance Curve:


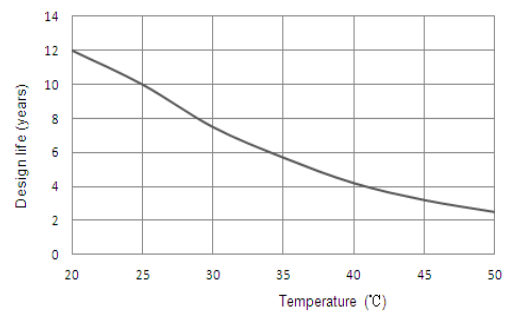
Discharge voltage vs. discharge time



Charge capacity vs. charge time



Discharge capacity vs. temperature



Design life vs. temperature

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