



Applications

- › UPS/EPS
- › Power systems
- › Telecommunications system
- › Hospitals & Testing Laboratories
- › Banks and Financial Markets
- › Other general purpose

Specification

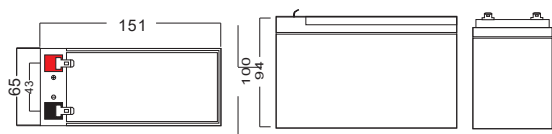
Nominal Voltage	12V
Nominal Capacity	7.5Ah (1,75V)
Design life	10 years (long life acc to Eurobat Guide)
Terminal	T2
Approx. Weight	Approx 2.70kg (5.95lbs)
Container Material	ABS (UL94 HB or V-0 optional)
Internal resistance	Full charged at 25°C: Approx 16mΩ
Short-circuit current	209.72A
Operating Temperature	Discharge: -20 ~55 (-4~ 131°F) Charge: -20 ~40 (-4~ 104°F) Storage: -15 ~50 (5~ 122°F)
Max.Charging Current (25C)	0.25C
Charge voltage (25C)	Standby Use: 2.25-2.30V/cell Equalization Use: 2.30-2.40V/cell
Temp Coefficient	-3mV/cell/C -4mV/cell/C
Effect of temp. to Capacity	40C (104°F): 106% 25C (77°F): 100% 0C (32°F): 86%
Self discharge	≤ 3% per month at 25°C

General Features

- › Long Life stand by series
- › Compliance with IEC 60896 and YD/T 799 standards
- › High corrosion resistant performance: Pb-Ca multi-alloy grid
- › High energy density and power density
- › Optimized capability of instant high-current discharging
- › Excellent charge acceptance ability
- › Excellent deep cycle discharge capability
- › Strong high and low temperature performance
- › Precision sealing technology



Dimension: 151(L)×65(W)×94(H)×100(TH) Unit: mm

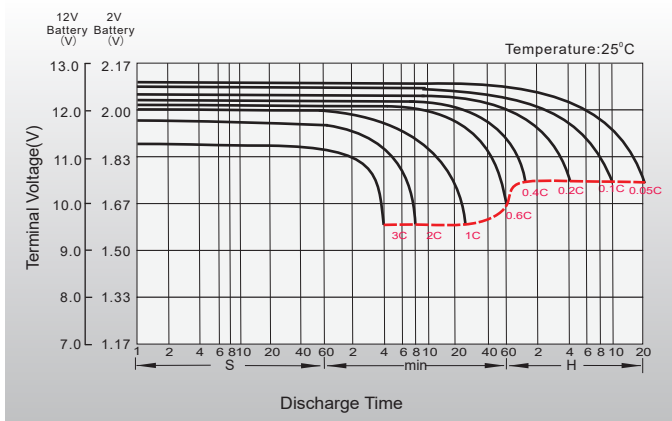


DISCHARGE TABLE

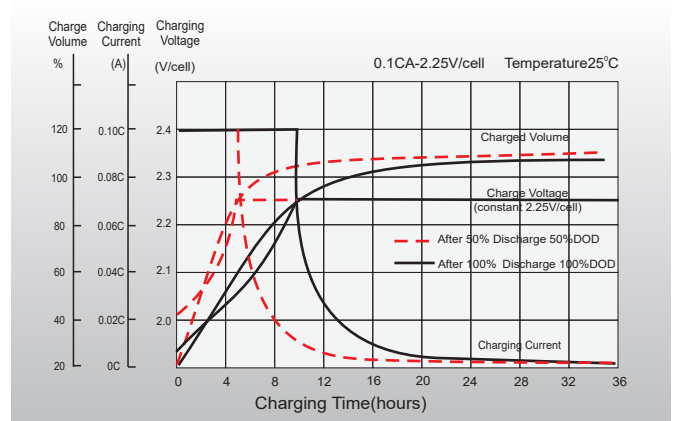
Constant Current Discharge (Amperes) at 25°C (77°F)														
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	31.7	20.7	16.7	12.8	8.94	6.35	5.05	3.59	2.74	1.98	1.57	1.34	0.900	0.739
1.80V/cell	34.1	21.9	17.6	13.3	9.22	6.53	5.18	3.67	2.79	2.01	1.60	1.36	0.920	0.749
1.75V/cell	35.9	22.8	18.1	13.7	9.46	6.67	5.28	3.74	2.84	2.04	1.62	1.38	0.930	0.757
1.70V/cell	37.6	23.7	18.8	14.1	9.70	6.82	5.38	3.80	2.88	2.07	1.64	1.40	0.940	0.764
1.67V/cell	38.9	24.4	19.2	14.4	9.87	6.92	5.46	3.85	2.91	2.09	1.66	1.41	0.940	0.770
1.60V/cell	41.3	25.4	19.9	14.8	10.1	7.10	5.59	3.93	2.97	2.13	1.69	1.43	0.960	0.780
Constant Power Discharge (Watts/cell) at 25°C (77°F)														
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	60.0	39.4	32.0	24.7	17.3	12.3	9.83	7.02	5.36	3.88	3.10	2.65	1.79	1.47
1.80V/cell	63.9	41.4	33.4	25.5	17.7	12.6	10.0	7.14	5.45	3.94	3.14	2.68	1.82	1.49
1.75V/cell	66.6	42.8	34.3	26.1	18.1	12.8	10.2	7.25	5.53	3.99	3.18	2.71	1.84	1.50
1.70V/cell	69.1	44.2	35.2	26.7	18.5	13.1	10.4	7.36	5.60	4.04	3.22	2.74	1.85	1.52
1.67V/cell	70.9	45.2	36.0	27.2	18.8	13.3	10.5	7.44	5.65	4.08	3.24	2.76	1.87	1.53
1.60V/cell	73.7	46.5	37.0	27.9	19.2	13.5	10.7	7.56	5.74	4.14	3.29	2.80	1.89	1.54

NPL Series lead-acid battery

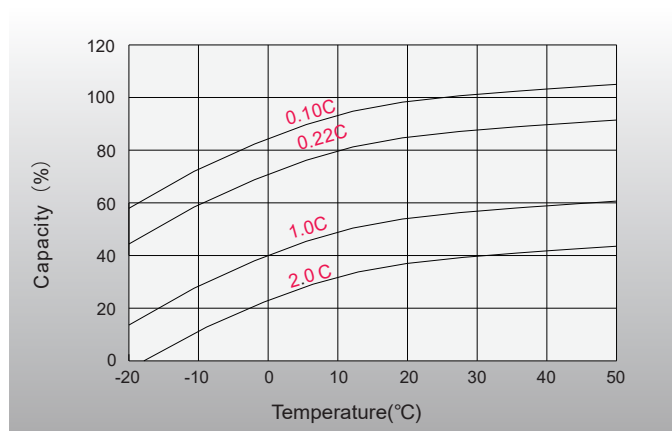
Discharge characteristic



Float charging characteristics



The effect of temperature on capacity



Temperature Effects on long term float Life

