Drypower

RECHARGEABLE SEALED LEAD ACID BATTERY

12NBN7P-F2 (12V 36Wh)

SPECIFICATIONS

Nominal Voltage (V) 12V

Nominal Capacity

 10 min rate
 (219W to 9.60V)
 36.5Wh

 20 hour rate
 (0.35A to 10.50V)
 7Ah

 1C
 (7A to 9.60V)
 4.43Ah

 3C
 (21A to 9.60V)
 2.8Ah

Weight Approx. 2.2kg (4.84lbs)

Internal Resistance (@1kHz) Approx. $17m\Omega$

Maximum Discharge Current

For 5 seconds 105A

Charging Methods @25°C (77°F)

Standby Use:

Float Charging Voltage 13.50V to 13.80V

Coefficient -3.0mV/°C/Cell

Maximum Charging Current 2.1A

Operating Temperature Range

Charge -15°C (5°F) to +40°C (104°F) Discharge -15°C (5°F) to +50°C (122°F) Storage -15°C (5°F) to +40°C (104°F)

Charge Retention (Shelf Life) @20°C (68°F)

 1 month
 92%

 3 months
 90%

 6 months
 80%

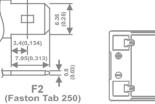
Case Material ABS

Terminal F2 (Faston Tab 250)

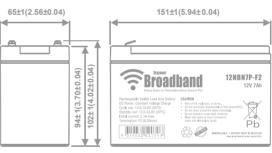


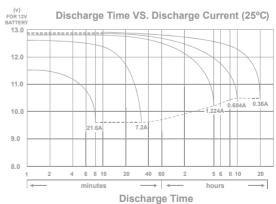
DIMENSIONS

mm (inch)





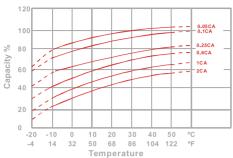




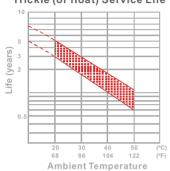


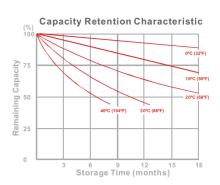


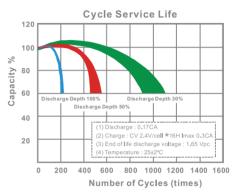
Effect of Temperature on Capacity 25°C (77°F)











- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C (77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	263	282	294	306	311	317	326
10	min	180	191	199	206	209	213	219
15	min	144	151	155	159	161	164	168
30	min	72.4	77.6	81.5	84.6	85.5	86.4	87.5
60	min	46.2	50.3	51.8	53.2	53.8	54.5	55.4
120	min	24.6	27.1	28.3	29.5	29.9	30.4	31.2
180	min	18.5	19.9	20.9	21.7	22.0	22.3	22.8
240	min	17.1	17.6	18.0	18.3	18.4	18.6	18.9
300	min	14.8	15.2	15.5	15.7	15.8	15.9	16.1
600	min	8.16	8.39	8.51	8.59	8.62	8.66	8.72
1200	min	4.14	4.23	4.31	4.37	4.39	4.42	4.46

- Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	23.1	26.2	27.8	29.1	29.6	30.5	31.7
10	min	16.1	17.3	18.1	18.6	18.9	19.2	19.8
15	min	12.6	13.1	13.5	13.8	14.0	14.1	14.3
30	min	6.54	7.05	7.28	7.47	7.56	7.68	7.85
60	min	4.02	4.25	4.41	4.52	4.58	4.63	4.71
120	min	2.26	2.38	2.45	2.49	2.51	2.54	2.57
180	min	1.65	1.74	1.79	1.82	1.83	1.85	1.88
240	min	1.39	1.44	1.48	1.51	1.53	1.55	1.57
300	min	1.13	1.19	1.24	1.28	1.30	1.31	1.32
600	min	0.667	0.675	0.682	0.687	0.690	0.694	0.699
1200	min	0.339	0.346	0.350	0.353	0.355	0.357	0.359

All data on the spec. sheet is an average value:

The tolerance range: X < 6min(+15% - 15%), $6min \le X < 10min(+12\% - 12\%)$, $10min \le X < 60min(+8\% - -8\%)$, $X \ge 60min(+5\% - -5\%)$

Performance may vary depending on application. All specifications are correct at time of creation. All specifications and operation conditions contained in this datasheet are subject to change or improvement without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.