RECHARGEABLE SEALED LEAD ACID BATTERY

12SB20C (12V 20Ah)

SPECIFICATIONS

Nominal Voltage (V)

12V

Nominal Capacity

20 hour rate (1.0A to 10.50V) 20Ah 10 hour rate (1.9A to 10.50V) 19Ah 5 hour rate (3.4A to 10.20V) 17Ah 1C (20A to 9.60V) 12.67Ah 3C (60A to 9.60V) 8Ah

Weight

Approx. 6.08kg (13.38lbs)

Internal Resistance (@1kHz)

Approx. 10mΩ

Maximum Discharge Current

300A For 5 seconds

Charging Methods @25°C (77°F)

Cycle Use:

14.4V to 15.0V Charging Voltage

Coefficient -5.0mV/°C/Cell

Maximum Charging Current 6A

Standby Use:

Float Charging Voltage 13.50V to 13.80V

Coefficient -3.0mV/°C/Cell

Operating Temperature Range

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

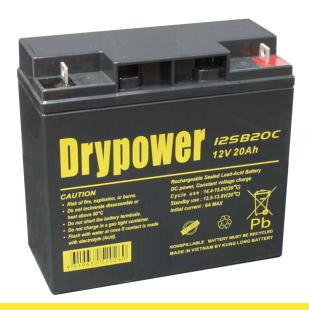
Storage -15°C (5°F) to

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

1 month 92% 3 months 90% 6 months 80%

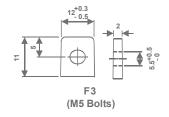
Case Material ABS

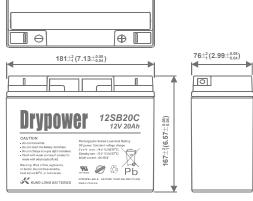
F3 **Terminal**

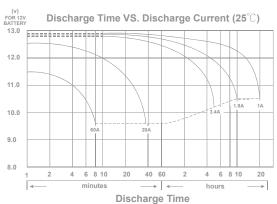


DIMENSIONS

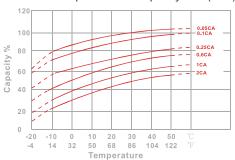
mm (inch)



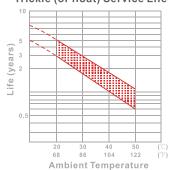




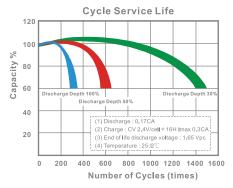




Trickle (or float) Service Life







- PERFORMANCE DATA

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

T:	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time)	1			1	1
5	min	648	750	818	860	871	884	896
10	min	463	522	566	592	599	608	615
15	min	387	433	473	491	496	501	506
30	min	209	223	239	248	251	254	256
60	min	133	139	144	148	149	151	153
120	min	73.2	76.4	78.2	80.7	81.3	82.0	82.9
180	min	57.2	59.3	60.7	61.9	62.3	62.8	63.4
240	min	45.8	47.6	48.7	49.6	49.9	50.3	50.8
300	min	39.9	41.3	42.0	42.6	42.8	43.1	43.5
600	min	23.2	23.9	24.4	24.8	24.9	25.1	25.3
1200	min	12.3	12.7	13.0	13.2	13.3	13.4	13.5

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

Time a	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
ime								
5	min	68.2	73.9	77.5	80.7	82.0	83.4	85.8
10	min	45.8	48.9	51.4	53.5	54.4	55.4	57.0
15	min	34.7	37.3	39.0	40.5	41.1	41.7	42.6
30	min	18.5	20.0	21.1	22.0	22.2	22.6	23.2
60	min	11.1	11.7	12.2	12.6	12.7	12.9	13.1
120	min	6.25	6.47	6.61	6.73	6.77	6.82	6.89
180	min	4.73	4.90	5.00	5.08	5.11	5.15	5.21
240	min	3.88	3.97	4.04	4.09	4.11	4.14	4.17
300	min	3.41	3.48	3.53	3.57	3.58	3.60	3.62
600	min	1.97	2.00	2.02	2.04	2.05	2.06	2.07
1200	min	1.00	1.03	1.05	1.07	1.08	1.09	1.10

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

The tolerance range : $X < 0 \min(+15\% \sim -15\%)$, $0 \min \le X < 10 \min(+12\% \sim -12\%)$, $0 \min \le X < 0 \min(+8\% \sim -8\%)$, $0 \le X \le 0 \min(+8\% \sim -8\%)$

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.