



12V

80W

SLA

UPS
AGM

12SB80WHR-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Power	15 min rate	
	80W/cell to 1.67V/cell	
Nominal Capacity		
20 hour rate	(1.0A to 10.50V)	20Ah
8 hour rate	(2.25A to 10.50V)	18Ah
5 hour rate	(3.40A to 10.20V)	17Ah
Weight	Approx. 6.6kg	
Internal Resistance (at 1KHz)	Approx. 10mΩ	
Maximum Discharge Current (5 secs)	300A	
Short Circuit Current	1000A	
Charge Methods at 25°C		
Maximum Charging Current	6A	
Boost Charging Voltage	14.4V to 15.0V	
Boost Charge Time	8-9 hrs	
Float Charging Voltage	13.5V to 13.8V	
Coefficient -3.0mV/°C/Cell		

Operating Temperature Range

Charge	-15°C to 40°C
Discharge	-15°C to 50°C
Storage	-15°C to 40°C

Charge Retention (Shelf Life) at 20°C

1 month	98%
3 months	96%
6 months	94%

Case Material UL94 V-0 Flame Retardant

Termination F6 (M5 Bolt)

Torque Value of Terminal Hardware

Recommended Torque Value	M5: 4 N-m (41kgf-cm)
Max. Allowable Torque Value	M5: 6 N-m (61kgf-cm)

Design Life 6-9 years

Classified as a non-spillable battery.

Approved for transportation by:

- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)



Barcode

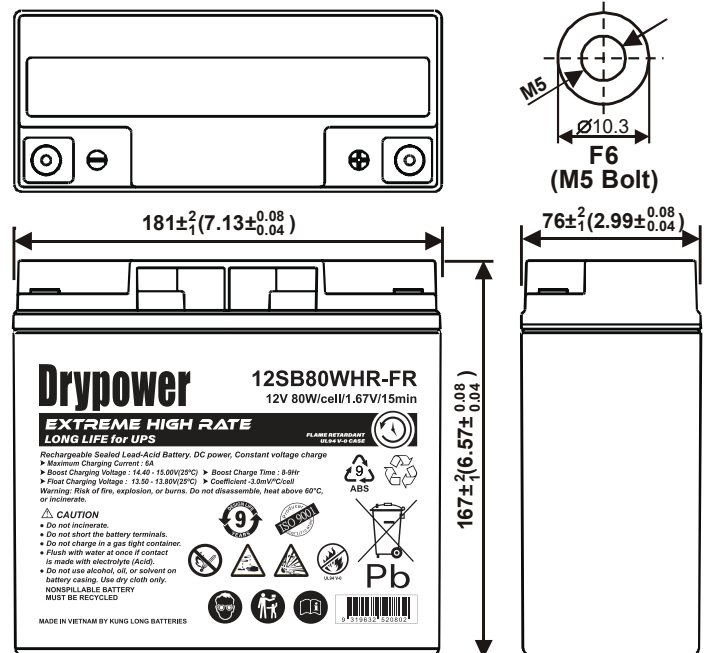


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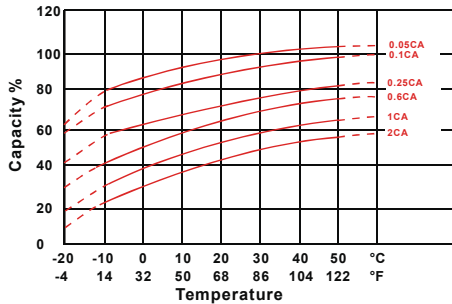
DIMENSIONS

mm (inch)

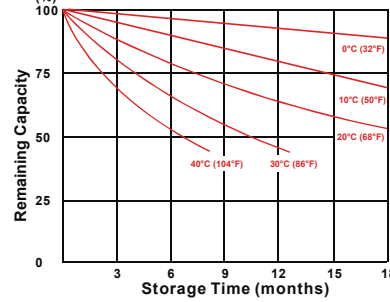


CHARACTERISTICS CHARTS

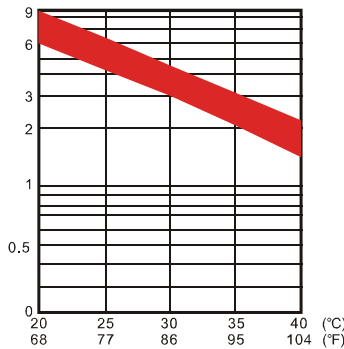
Effect of Temperature on Capacity 25°C (77°F)



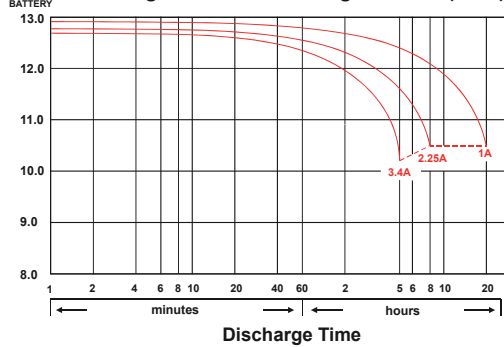
Capacity Retention Characteristic



Trickle (or float) Service Life



Discharge Time VS. Discharge Current (25°C)



FEATURES & BENEFITS

- ◆ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ◆ Specially formulated solder paste to ensure reliable power delivery.
- ◆ Maintenance free technology and non-spillable design.
- ◆ Special grid frame alloy design with outstanding anti-corrosion performance.
- ◆ Higher percentage of tin content compared with the industry standard. Tin extends battery standby life by minimising sulphation (corrosion) especially at higher temperatures.
- ◆ Manufactured by Kung Long Battery (KLB) at facilities in Taiwan and Vietnam. KLB is a leading manufacturer and complies with relevant international quality standards including ISO9001, CE ETL9000, UL1989, OHSAS18001 and ISO17025. KLB supports Green Sustainable supply chain practices.



PERFORMANCE DATA

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
2	min	199	228	250	259	267	271	274
4	min	162	180	191	198	200	202	204
5	min	148	161	169	175	178	181	184
6	min	144	151	156	161	165	168	170
8	min	115	123	127	131	134	136	138
10	min	93.4	101	108	110	112	114	116
15	min	68.5	75.8	82.3	83.2	85.6	86.2	86.7
20	min	60.8	64.2	66.9	67.3	67.7	68.1	68.5
30	min	39.5	43.2	46.2	47	47.6	48.2	48.6
45	min	34.9	35.8	36.6	37.1	37.6	37.9	38.2
60	min	22.7	23.8	24.6	25.4	26.2	26.6	26.8
90	min	18.5	19.3	19.8	20.1	20.3	20.5	20.6
120	min	12.2	12.7	13	13.5	13.6	13.7	13.8
180	min	9.53	9.88	10.1	10.3	10.4	10.5	10.6
240	min	7.63	7.93	8.12	8.22	8.32	8.4	8.46
300	min	6.65	6.88	7	7.1	7.13	7.16	7.18
480	min	4.59	4.75	4.83	4.88	4.91	4.93	4.95
600	min	3.55	3.72	3.8	3.82	3.84	3.86	3.88
1200	min	1.92	1.98	2.02	2.06	2.09	2.12	2.15

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
2	min	112	128	135	142	148	154	159
4	min	78.5	97.2	104	109	113	116	118
5	min	73.4	81.4	88.5	93.2	96.5	99	101
6	min	67.9	75.9	83.2	85	86.5	87.5	88.2
8	min	61.5	65.7	69.5	71.2	72.4	73.3	73.9
10	min	51.2	55	57.2	58.8	60	61.2	62.2
15	min	40	41.6	43	43.7	44.5	45.1	45.5
20	min	32.50	34	34.9	35.2	35.5	35.8	36
30	min	22.7	23.9	24.3	24.5	24.7	24.9	25.1
45	min	16.5	17.4	18.1	18.6	18.8	19.2	19.5
60	min	11.6	12.2	12.7	13.1	13.5	13.7	13.9
90	min	9.27	10.1	10.8	11.1	11.3	11.5	11.6
120	min	6.16	6.56	6.9	7.16	7.43	7.56	7.7
180	min	4.73	4.9	5	5.08	5.11	5.17	5.21
240	min	3.88	3.97	4.04	4.09	4.12	4.15	4.17
300	min	3.3	3.37	3.42	3.46	3.48	3.5	3.51
480	min	2.14	2.23	2.3	2.32	2.33	2.34	2.35
600	min	1.9	1.96	2	2.02	2.03	2.04	2.05
1200	min	0.96	0.99	1.01	1.03	1.04	1.05	1.05

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

The tolerance range : $X < 6\text{min}$ (+15%~-15%), $6\text{min} \leq X < 10\text{min}$ (+12%~-12%), $10\text{min} \leq X < 60\text{min}$ (+8%~-8%), $X \geq 60\text{min}$ (+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. Dec2023