



12V

300W

SLA

UPS
AGM

12SB300WHR-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	12V
Nominal Power	
15 min rate	300W/cell to 1.67V/cell
Nominal Capacity	
20 hour rate (3.75A to 10.50V)	75Ah
8 hour rate (8.87A to 10.50V)	71Ah
5 hour rate (12.75A to 10.20V)	63.75Ah
Weight	Approx. 25kg
Internal Resistance (at 1KHz)	Approx. 5mΩ
Maximum Discharge Current (5 secs)	900A
Short Circuit Current	3175A
Charge Methods at 25°C	
Maximum Charging Current	22.5A
Boost Charging Voltage	14.1V to 14.4V
Boost Charge Time	8-9 hrs
Float Charging Voltage	13.5V to 13.65V
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	F8 (M6 Bolt)
Torque Value of Terminal Hardware	
Recommended Torque Value	M6: 7 N-m (71kgf-cm)
Max. Allowable Torque Value	M6: 10 N-m (102kgf-cm)
Design Life	10-12 years

Classified as a non-spillable battery.
Approved for transportation by:

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



Barcode

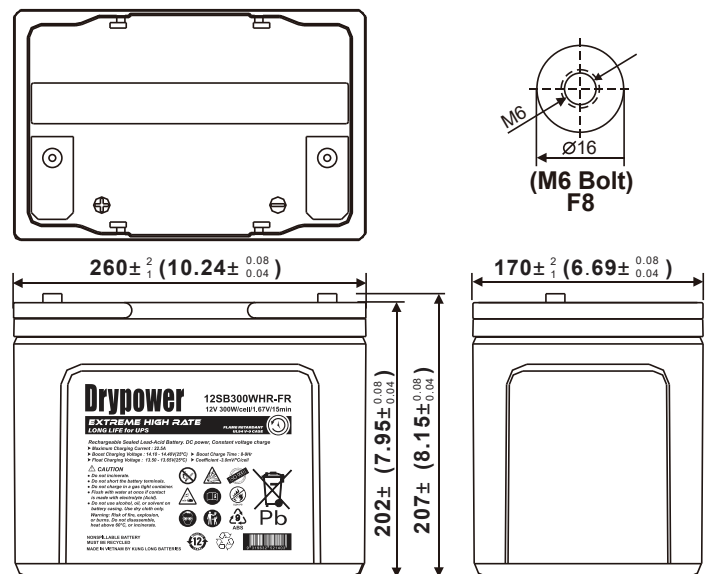


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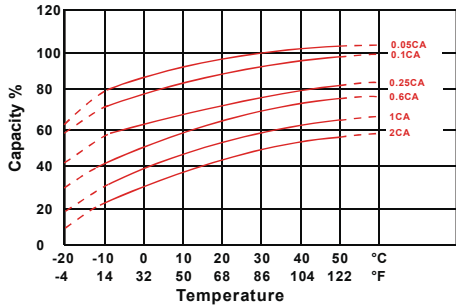
DIMENSIONS

mm (inch)

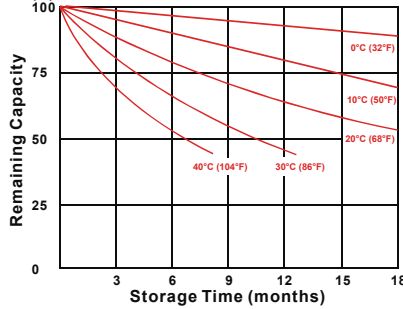


CHARACTERISTICS CHARTS

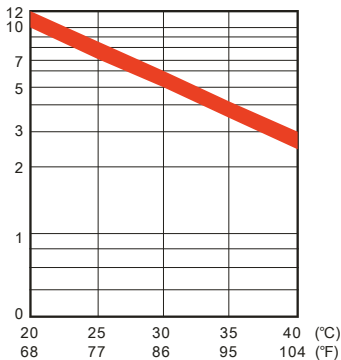
Effect of Temperature on Capacity 25°C (77°F)



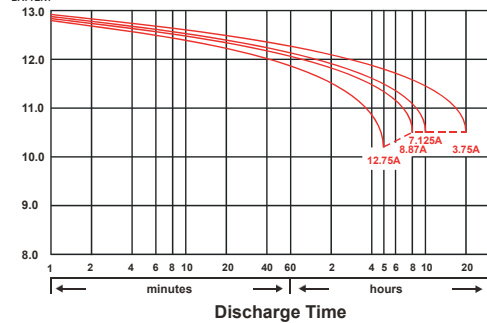
Capacity Retention Characteristic



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
Time								
2	min	570	630	680	735	775	790	800
4	min	500	570	622	660	690	697	705
5	min	480	530	573	608	633	642	650
6	min	454	499	543	580	600	608	615
8	min	398	440	480	495	510	518	525
10	min	380	400	415	426	435	442	448
15	min	292	311	326	333	340	345	350
20	min	232	250	261	265	268	270	270
30	min	177	187	197	201	203	204	205
40	min	140	145	150	152	153	153	154
45	min	129	134	136	138	139	139	140
60	min	97.1	97.9	98.4	98.7	98.9	99	99
90	min	68.8	70	70.9	71.7	72.2	72.5	72.8
120	min	54.6	56.5	57.4	57.7	58	58.2	58.4
180	min	37.7	38.3	38.8	39.1	39.3	39.4	39.5
240	min	29.5	30	30.5	30.7	30.9	31	31.1
300	min	24.1	24.4	24.6	24.8	24.9	25	25
480	min	16.4	16.7	16.9	17	17.1	17.1	17.2
600	min	13.7	14.2	14.7	14.9	15.1	15.2	15.2
1200	min	7.74	7.82	7.87	7.92	7.95	7.97	7.98

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
Time								
2	min	308	355	400	440	455	470	480
4	min	270	325	370	385	395	404	407
5	min	258	298	330	350	365	377	387
6	min	245	280	310	335	350	358	364
8	min	216	245	270	290	306	314	321
10	min	202	217	228	238	248	257	264
15	min	155	170	184	189	194	197	199
20	min	124	138	147	151	153	155	157
30	min	95	100	102	105	107	109	110
40	min	72.7	77	79.1	80.7	82	83.1	83.7
45	min	66.7	70.4	71.5	72.7	73.5	74.3	75
60	min	51	53	54	54.9	55.5	55.9	56.6
90	min	35.8	36.7	37.5	38.3	38.8	39.3	39.8
120	min	27.8	29	29.8	30.2	30.6	30.8	31
180	min	19.5	20.4	20.9	21.1	21.3	21.4	21.5
240	min	15.2	15.7	16	16.2	16.3	16.3	16.4
300	min	12.7	13	13.2	13.4	13.6	13.7	13.8
480	min	8.53	8.88	9.2	9.22	9.23	9.24	9.24
600	min	7.2	8	8.01	8.01	8.02	8.02	8.02
1200	min	3.75	4	4.02	4.03	4.03	4.04	4.04

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

The tolerance range : X < 6min (+15%~-15%), 6min ≤ X < 10min (+12%~-12%), 10min ≤ X < 60min (+8%~-8%), X ≥ 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. Dec2023