



12V

245W

SLA

UPS
AGM

12SB245WHR-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	12V
Nominal Power	
15 min rate	245W/cell to 1.67V/cell
Nominal Capacity	
20 hour rate (3.25A to 10.50V)	65Ah
8 hour rate (7.67A to 10.50V)	61.36Ah
5 hour rate (11.05A to 10.20V)	55.25Ah
Weight	Approx. 20.5kg
Internal Resistance (at 1KHz)	Approx. 6mΩ
Maximum Discharge Current (5 secs)	780A
Short Circuit Current	2910A
Charge Methods at 25°C	
Maximum Charging Current	19.5A
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)



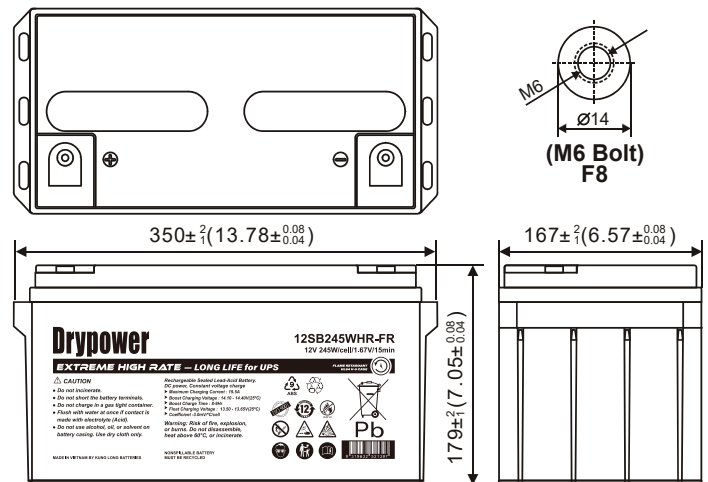
Barcode



9319632521397

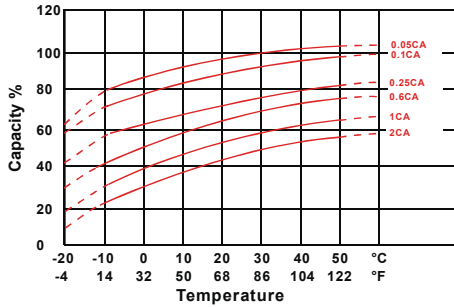
DIMENSIONS

mm (inch)

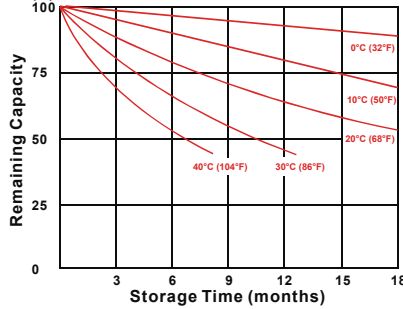


CHARACTERISTICS CHARTS

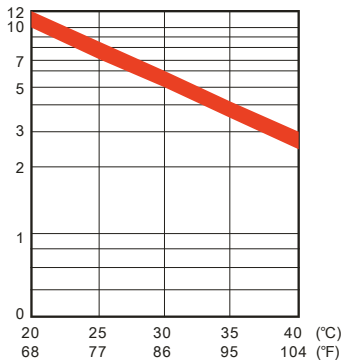
Effect of Temperature on Capacity 25°C (77°F)



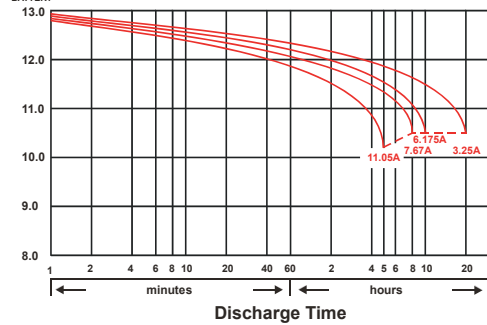
Capacity Retention Characteristic



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
5	min	249	275	320	371	380	396	432
10	min	203	230	251	274	282	290	309
15	min	170	190	207	215	218	224	231
20	min	150	158	171	173	180	185	193
30	min	113	124	134	138	141	143	148
60	min	72.5	76.5	82.3	83.7	84	84.3	85
90	min	58.3	60.2	61.5	62	62.3	62.5	62.8
120	min	45.7	48	49	49.5	49.7	49.8	50
180	min	32.4	33.5	34	34.3	34.5	34.7	35
240	min	26	27.2	27.5	27.7	27.8	28	28.2
300	min	21.7	22.6	23.1	23.2	23.3	23.4	23.4
480	min	14.9	15.5	15.8	15.9	16	16	16
600	min	12.5	12.9	13.2	13.2	13.3	13.3	13.3
1200	min	6.54	6.76	6.86	6.87	6.89	6.91	6.94

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
5	min	137	151	177	208	213	224	245
10	min	102	123	135	149	154	158	169
15	min	91	100	109	116	119	122	129
20	min	61.40	82.5	89.3	92.5	94	96.5	101
30	min	50.7	63.6	68.5	71.5	73.4	74.7	77.2
60	min	36.6	38.5	41.5	42.5	43	43.6	44.2
90	min	29.5	31.1	31.8	32.2	32.8	33	33.4
120	min	23.1	24.3	24.8	25	25.3	25.5	25.8
180	min	16.2	17	17.3	17.5	17.7	17.8	18
240	min	13	13.6	13.8	13.9	14	14.1	14.2
300	min	10.8	11.3	11.5	11.6	11.7	11.8	11.9
480	min	7.43	7.73	7.87	7.92	7.94	7.96	7.98
600	min	6.19	6.43	6.54	6.58	6.6	6.61	6.63
1200	min	3.24	3.35	3.4	3.41	3.42	3.43	3.44

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. Oct2023