2V HIGH POWER LONG LIFE RANGE **STANDBY LONG LIFE POWER**

475Ah

2V

2SB480HP-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICA	TIONS				
Nominal Voltage		2V			
Nominal Capacity 20 hour rate 10 hour rate 5 hour rate 1 hour rate 1C	(23.75A to 1.75V) (44.0A to 1.80V) (74.8A to 1.70V) (264A to 1.60V) (440A to 1.60V)	475Ah 440Ah 374Ah 264Ah 220Ah			
Weight	. ,	Approx. 29.7kg			
Internal Resistance	e (at 1KHz)	Approx. 0.4mΩ			
Maximum Dischar	ge Current (5 secs)	2640A			
Charge Methods of Cycle Use Charging Volta Coefficient -5.0 Maximum Char Standby Use Float Charging Coefficient -3.0	at 25°℃ ge mV/°C/Cell ging Current Voltage mV/°C/Cell	2.33V to 2.36V 142.5A 2.21V to 2.25V			
Operating Temper Charge Discharge Storage	rature Range	–15°C to 40°C –15°C to 50°C –15°C to 40°C			
Charge Retention 1 month 3 months 6 months Case Material	(Shelf Life) at 20°C	98% 94% 85% UL94 V-0 Flame Retardant			
Termination		F18 (M8 Bolt)			
Description of Toro Recommended Max. Allowable	que Value of Hardwar I Torque Value Torque Value	e for the Terminals M8: 12 N-m (122kgf-cm) M8: 15 N-m (153kgf-cm)			
Design Life	a antilada la battana	12-15 Years (at 20°C)			
Approved for tran • Air (IATA/ICAO p • Road • Sea (per IMDG Sp	n-spillable battery. sportation by: rovision A67) pecial Provision 238)				
Barcode		9319432521039			



SLA

AGM

mm (inch)

DIMENSIONS



2.0

1.8

1.7

1.5

1.3

2

4 6 8 10

minutes

20

74.8A

5 6 8 10

hours

264A

40 60

Discharge Time

→ ◆

2

440A

20

CHARACTERISTICS CHARTS









Ambient Temperature

FEATURES & BENEFITS

- Industry leading 99.99% pure lead content for superior service life and dependable performance.
- Long service life to reduce maintenance and logistical costs across telecom, utilities and off-grid applications.
- Minimises sulphation with a thicker plate design and higher percentage of tin content to maximise battery standby life.
- High rate discharge capable to ensure reliable performance.
- Maintenance free technology and non-spillable design.
- 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)									
Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.65V	1.60V		
20	min	657	731	803	864	922	964		
30	min	626	698	750	791	828	847		
60	min	416	451	477	494	508	517		
120	min	264	280	289	298	306	313		
180	min	205	216	223	230	236	241		
240	min	163	175	181	187	192	196		
300	min	145	154	159	163	166	169		
360	min	125	132	135	138	141	143		
480	min	104	109	112	114	116	117		
600	min	90.7	93.8	95.3	96.6	97.7	98.6		
1200	min	46.5	48.2	49.3	50.2	50.8	51.2		

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F) End Voltage 1.85V 1.80V 1.75V 1.70V 1.65V 1.60V Time 368 429 472 509 538 561 20 min 30 309 361 398 429 453 469 min 60 195 219 238 254 267 277 min 120 126 136 145 153 160 166 min 180 min 96.7 104 110 115 119 123 240 80.5 85.2 89 4 92.6 95.2 97.2 min 300 67.9 72.3 76 78.9 81.1 82.9 min 360 65.7 59.80 63.1 68.1 70.1 71.5 min 480 50.7 52.6 55.2 56.3 min 54 57.1 600 min 43.3 44.7 45.9 46.9 47.7 48.3 1200 <u>25.4</u> min 22.6 23.3 23.9 24.5 25

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

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

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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.