

Maintenance-Free Rechargeable Sealed Lead-Acid Battery

SB2496 (6V4.5AH)

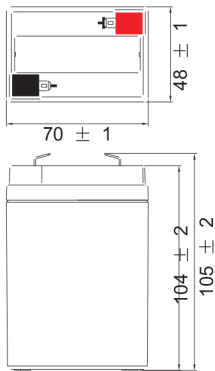
Specification



Application

- Lighting equipment
- Portable video camera
- Portable personal computer
- Emergency lighting equipment
- Fire alarm and security systems
- Electric equipment and telemeter equipment
- Toys and consumer electronics
- Portable power tools, measuring and medical equipment

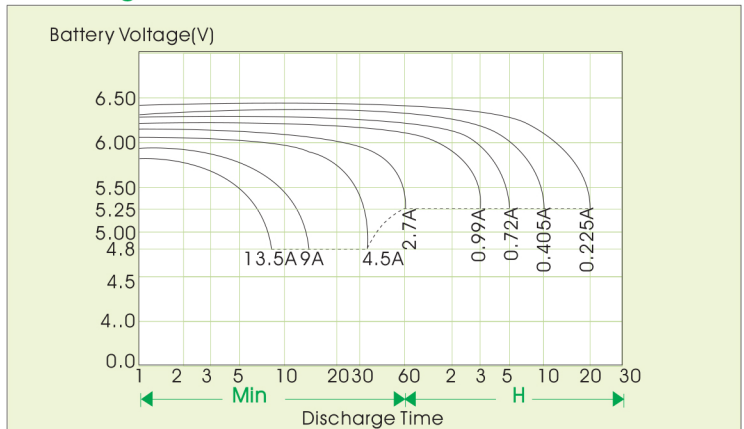
Dimensions(mm)



Nominal voltage		6V
Rated Capacity (20 hour rate)		4.5AH
Approx Weight		0.70kg
Terminal	Standard	F1 TAB 187E
	Optional	
Operation Temperature		
Charge	0°C(32°F)~40°C(104°F)	
Discharge	-20°C(-4°F)~50°C(122°F)	
Storage	-20°C(-4°F)~40°C(104°F)	

Capacity 25°C (77°F)	20 hour rate (0.225A)	4.5AH
	10 hour rate (0.405A)	4.05AH
	5 hour rate (0.72A)	3.6AH
	1 hour rate (2.7A)	2.7AH
Capacity affected by temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
	-15°C (5°F)	65%
Self-discharge at 25°C (77°F) (Before recharge)	Capacity after 3 month	91%
	Capacity after 6 month	82%
	Capacity after 12 month	64%
Constant voltage charge	Cycle	Initial Charging Current ≤ 1.35A 7.2V~7.5V at 25°C (77°F)
	Standby	6.8V~6.9V at 25°C (77°F)
Max discharge current for 5 seconds		45A

Discharge characteristic



Note: Discharge shall be cut-off at 5.25V if discharge at $< 1C_A$ and at 4.8V if at $\geq 1C_A$. It is recommended to recharge battery by constant-voltage charge immediately after use.

Constant current (Amp) and Constant Power (Watt) Discharge Table at 25°C (77°F)

Final voltage	Time (min)	5	10	15	20	30	60	120	180	300	600
		1.80VPC	A	10.974	9.856	7.259	5.297	4.089	2.501	1.498	0.930
	W	60.654	45.746	34.541	30.664	23.683	14.661	8.883	6.453	4.239	2.548
1.75VPC	A	11.539	10.169	7.834	5.554	4.416	2.700	1.556	0.990	0.720	0.405
	W	63.296	47.944	38.089	32.091	24.551	15.539	9.207	6.696	4.401	2.565
1.70VPC	A	12.497	10.856	8.105	5.844	4.500	2.726	1.646	1.202	0.784	0.431
	W	66.844	49.063	39.574	33.306	25.341	15.809	9.450	6.899	4.523	2.579
1.65VPC	A	13.236	11.154	8.568	5.998	4.590	2.758	1.648	1.200	0.786	0.433
	W	69.969	50.490	39.844	34.116	25.573	16.011	9.558	6.953	4.575	2.584
1.60VPC	A	14.066	11.358	9.000	6.166	4.738	2.803	1.679	1.088	0.797	0.441
	W	71.241	51.377	40.596	33.924	25.843	16.119	9.626	6.993	4.604	2.584