



# XPL series XPL4700



## Valve Regulated Lead Acid Battery

Maintenance-Free Sealed Lead Acid Battery.

Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

### General

### Design for Standby Power Applications

#### 【Design Life】

Up to 10 Years in Standby Service at 25°C  
Eurobat (20°C) : >12 YEARS VERY LONG LIFE

#### 【Operating Temperature Range】

Nominal Operating Temperature : 25°C (77°F)  
Discharge : -15°C ~ 50°C (5°F~122°F)  
Charge: -15°C ~ 40°C (5°F~104°F)  
Storage: -15°C ~ 40°C (5°F~104°F)

#### 【Float Charging Voltage】

13.5 ~ 13.8 VDC/Unit at 25°C (77°F)

#### 【Equalization Charging Voltage】\*

14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

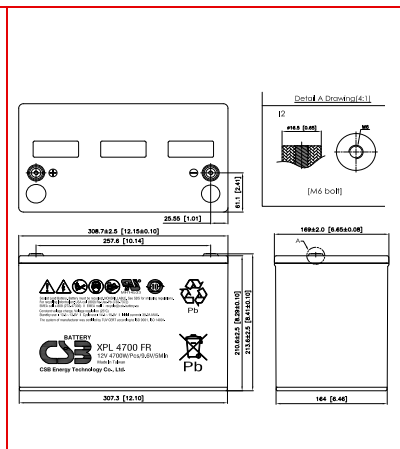
#### 【Self Discharge】

Less than 10% after 90 days, can be stored up to 6 months and 10 months with equalization charge\* at 25°C (77°F);  
Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F).

### Specification

### Design according with IEC 60896-21/22:2004

Nominal Voltage	12V (6 cells per unit)		
Nominal Capacity	4700W @5min-rate to 1.60V per PCS @25°C (77°F)		
Weight	Approx. 32.80 Kg (72.31 lbs)		
Maximum Discharge Current	1050A		
Internal Resistance	Approx. 2.90 mΩ		
Short Circuit Current	3167A		
Maximum Charge Current	39.2A		
Terminal types	I2 thread lead alloy terminal to accept M6 bolt		
Terminal tightening torque	51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.1±1.0 N·m		
Container Material	PP (UL 94-HB) & Flame Retardant (94-V0) available upon request		
Dimensions	Length (L)	308.7±2.5 mm	12.15±0.10 inch
	Width (W)	169.0±2.0 mm	6.65±0.08 inch
	Container Height (h)	210.6±2.5 mm	8.29±0.10 inch
	Overall Height (H)	213.6±2.5 mm	8.41±0.10 inch



### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	625	519	475	437	374	323	241	191	137	97.8	77.0	54.9
1.67V	561	469	432	404	345	305	231	185	135	96.5	76.1	54.5
1.70V	530	445	414	383	332	294	226	181	133	95.6	75.6	54.3
1.75V	476	408	375	347	308	272	214	173	129	93.2	74.1	53.6
1.80V	408	353	330	313	275	245	197	161	122	89.0	71.3	52.2
1.85V	316	304	287	266	236	215	173	144	111	82.3	66.4	49.1

### Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	5941	5032	4768	4519	3920	3487	2716	2189	1602	1154	910	649
1.67V	5489	4786	4549	4221	3717	3341	2633	2137	1578	1142	902	647
1.70V	5266	4673	4376	4070	3606	3254	2580	2104	1560	1134	897	644
1.75V	4839	4346	4033	3792	3398	3077	2465	2015	1515	1109	881	637
1.80V	4602	3886	3665	3469	3133	2836	2275	1883	1443	1066	851	620
1.85V	3572	3439	3281	3090	2786	2537	2022	1702	1336	995	800	588

### Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

F.V/Time	30SEC	40SEC	50SEC	60SEC	70SEC	80SEC	90SEC
1.60V	6850	6720	6620	6540	6389	6261	6150
1.67V	6328	6208	6116	6042	5903	5784	5682
1.70V	6071	5955	5867	5796	5662	5549	5451

\*\*Preliminary spec sheet

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### Sales Offices

希世比能源科技股份有限公司  
CSB Energy Technology Co., Ltd.

#### BUSINESS HEADQUARTERS

Tel: +886-2-2880-5600  
Fax: +886-2-2888-3300

#### USA OFFICE

Tel: +1-817-244-7777 / 1-(800)3-CSB-USA (272872)  
Fax: +1-817-244-4445

#### SHENZHEN OFFICE (CHINA)

Tel: +86-755-8831-6488/6775/6075  
Fax: +86-755-8831-6548

#### EUROPE (EMEA) OFFICE

Tel: +31(0)180-418-140  
Fax: +31(0)180-418-327

#### SHANGHAI OFFICE (CHINA)

Tel: +86-21-5046-1622/0833/0094  
Fax: +86-21-5046-1046

Recognized under UL 1989,  
and certified by ISO 9001, 14001, 45001, 50001.



#### TAIPEI OFFICE

Tel: +886-2-2880-5600  
Fax: +866-2-2888-3300

#### BEIJING OFFICE (CHINA)

Tel: +86-10-6597-8065/8165/8265  
Fax: +86-10-6597-8565