



**GPL series**

**GPL 12120 12V 12AH**



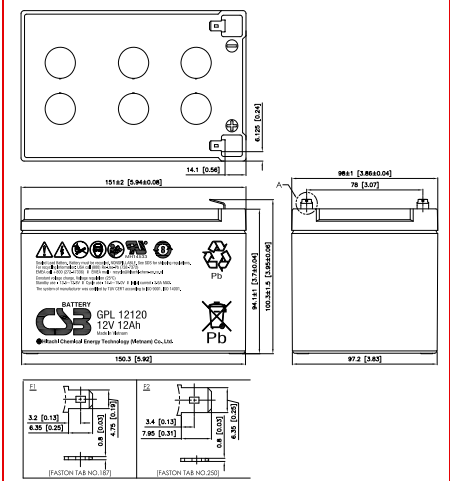
**Valve Regulated Lead Acid Battery**

Maintenance-Free Sealed Lead Acid Battery.  
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

**Design for Standby Power Applications**

<p><b>【Design Life】</b> Up to 8 Years in Standby Service at 25°C Eurobat (20°C) : 6-9 years, General Purpose</p> <p><b>【Operating Temperature Range】</b> 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)</p>	<p><b>【Float Charging Voltage】</b> 13.5 ~ 13.8 VDC/Unit at 25°C (77°F)</p> <p><b>【Equalization Charging Voltage】</b> 14.4 ~ 15.0 VDC/Unit at 25°C (77°F)</p> <p><b>【Self Discharge】</b> Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F); Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F).</p>
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Specification		Design according with IEC 61056-1/2:2012	
Nominal Voltage	12V (6 cells per unit)		
Nominal Capacity	12 Ah @20hr-rate to 1.75V per cell @25°C (77°F)		
Weight	Approx. 4.10 Kg (9.04 lbs)		
Maximum Discharge Current	150/180A (5sec)		
Internal Resistance	Approx. 13.2 mΩ		
Short Circuit Current	458A		
Maximum Charge Current	3.60A		
Terminal type	F1/F2 Faston Tab Terminal (187/250)		
Terminal hardware Torque	--		
Container Material	ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request		
Dimensions	Length (L)	151.0±2.0 mm	5.94±0.08 inch
	Width (W)	98.0±1.0 mm	3.86±0.04 inch
	Container Height (h)	94.1±1.0 mm	3.70±0.04 inch
	Overall Height (H)	100.3±1.5 mm	3.95±0.06 inch



Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	45.7	32.1	23.1	13.5	7.42	5.16	3.99	2.84	1.84	1.25	1.03	0.63
1.67V	44.0	31.4	23.0	13.4	7.32	5.11	3.96	2.81	1.83	1.24	1.01	0.62
1.70V	42.8	30.8	22.6	13.2	7.27	5.08	3.94	2.80	1.81	1.23	1.00	0.61
1.75V	40.3	29.4	21.9	13.0	7.14	5.00	3.88	2.76	1.80	1.22	0.99	0.60
1.80V	37.6	27.5	20.7	12.6	6.92	4.87	3.80	2.70	1.77	1.20	0.97	0.59
1.85V	33.8	24.8	19.0	11.7	6.55	4.64	3.63	2.59	1.70	1.14	0.93	0.56

Constant Power Discharge Characteristics Unit: W (25°C, 77°F)												
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	487	343	258	152	84.6	59.9	46.9	33.4	21.7	14.7	12.2	6.30
1.67V	475	339	255	151	84.5	59.7	46.6	33.2	21.6	14.6	12.1	6.24
1.70V	466	333	252	150	84.1	59.2	46.1	33.1	21.5	14.5	12.0	6.23
1.75V	443	322	246	149	83.5	58.9	46.0	32.9	21.4	14.4	11.8	6.19
1.80V	416	306	235	144	81.0	57.4	44.9	32.0	21.0	14.2	11.6	6.09
1.85V	380	280	217	135	77.0	54.8	43.0	30.7	20.4	13.7	11.2	5.85

Please refer to the official site for the latest rating confirmation. URL: [www.csb-battery.com](http://www.csb-battery.com)

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**Sales Offices**

日立化成能源科技股份有限公司  
Hitachi Chemical Energy Technology Co., Ltd.

**BUSINESS HEADQUARTERS**

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

**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, 8831-6775  
Fax: +86-755-8831-6075

**EUROPE (EMEA) OFFICE**

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

**SHANGHAI OFFICE (CHINA)**

Tel: +86-21-5046-1622, 5046-0833  
Fax: +86-21-5046-1046

**TAIPEI OFFICE**

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

**BEIJING OFFICE (CHINA)**

Tel: +86-10-5820-5336, 5820-5338  
Fax: +86-10-5820-3053

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

