



GP series

GP 12120 12V12AH



Valve Regulated Lead Acid Battery

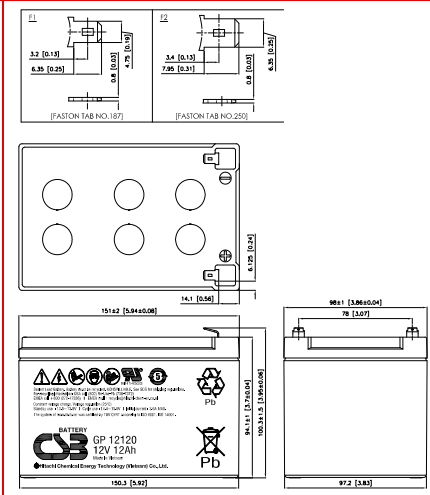
Maintenance-Free Sealed Lead Acid Battery.

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

Design for Standby Power Applications

<p>【Design Life】 Up to 5 Years in Standby Service at 25°C Eurobat (20°C) : 3-5 years, Standard Commercial</p> <p>【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)</p>	<p>【Float Charging Voltage】 13.5 ~ 13.8 VDC/Unit at 25°C (77°F)</p> <p>【Equalization Charging Voltage】 14.4 ~ 15.0 VDC/Unit at 25°C (77°F)</p> <p>【Self Discharge】 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>
--	---

Specification		Design according with IEC 61056-1/2: 2012	
Nominal Voltage	12V (6 cells per unit)		
Nominal Capacity	12Ah @20hr-rate to 1.75V per cell @25°C (77°F)		
Weight	Approx. 3.67 Kg (8.09 lbs)		
Maximum Discharge Current	150/180A (5sec)		
Internal Resistance	Approx. 16.7mΩ		
Short Circuit Current	378A		
Maximum Charge Current	3.60A		
Terminal types	F1/F2 terminal -Faston Tab 187/250		
Terminal Breaking 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	5 MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	51.2	33.2	23.9	13.9	8.14	5.90	4.69	3.37	2.24	1.45	1.19	0.63
1.67V	48.2	32.0	23.6	13.7	8.12	5.84	4.62	3.35	2.21	1.44	1.18	0.62
1.70V	46.3	31.6	23.3	13.6	8.08	5.82	4.61	3.32	2.18	1.43	1.17	0.61
1.75V	43.3	30.0	22.6	13.4	8.03	5.77	4.57	3.26	2.13	1.40	1.15	0.60
1.80V	38.8	28.0	21.5	13.0	7.81	5.64	4.48	3.17	2.06	1.37	1.14	0.59
1.85V	34.2	25.3	19.8	12.3	7.51	5.41	4.29	3.03	1.97	1.32	1.09	0.57

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	539	347	268	160	97.9	70.6	55.9	39.6	25.3	16.7	13.8	7.70
1.67V	515	342	265	159	97.7	70.2	55.6	39.3	25.2	16.6	13.7	7.63
1.70V	499	336	262	158	97.0	69.9	55.4	39.0	25.0	16.5	13.6	7.61
1.75V	462	326	256	156	96.1	69.3	54.9	38.5	24.4	16.2	13.4	7.54
1.80V	418	307	243	153	94.8	68.0	53.7	37.7	24.1	15.8	13.1	7.42
1.85V	369	280	221	144	91.6	66.2	52.6	36.3	23.3	15.5	12.7	7.23

Please refer to the official site for the latest rating confirmation. URL: www.csb-battery.com Issued: 180205

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

