



GP series GP 12200



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 5 Years in Standby Service at 25°C
Eurobat (20°C) : 3-5 YEARS STANDARD COMMERCIAL

【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】

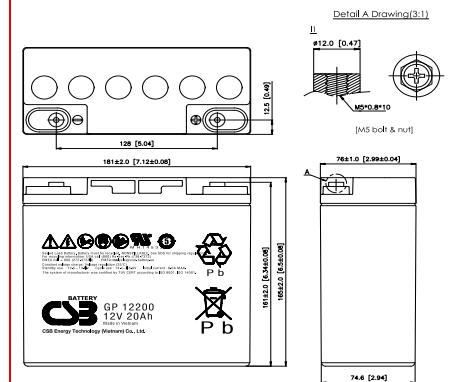
14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

【Self Discharge】

Less than 10% after 90 days, can be stored up to 6 months 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 61056-1/2:2012

Nominal Voltage	12V (6 cells per unit)		
Nominal Capacity	20 Ah @20hr-rate to 1.75V per cell @25°C (77°F)		
Weight	Approx. 5.80 Kg (14.11 lbs)		
Maximum Discharge Current	230A (5sec)		
Internal Resistance	Approx. 12.6mΩ		
Short Circuit Current	559A		
Maximum Charge Current	6.00A		
Terminal types	I1 thread lead alloy terminal to accept M5 bolt		
Terminal tightening torque	30.4±6.1 Kgf-cm / 26.4±5.3 Lbf-in / 3.0±0.6 N-m		
Container Material	ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request		
Dimensions	Length (L)	181.0±2.0 mm	7.12±0.08 inch
	Width (W)	76.0±1.0 mm	2.00±0.04 inch
	Container Height (h)	165.0±2.0 mm	6.50±0.08 inch
	Overall Height (H)	165.0±2.0 mm	6.50±0.08 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	83.9	53.5	39.6	23.8	14.1	10.4	8.22	5.93	3.88	2.61	2.15	1.16
1.67V	78.2	51.7	39.0	23.5	14.0	10.3	8.17	5.90	3.87	2.60	2.14	1.15
1.70V	74.6	50.4	38.5	23.4	13.9	10.2	8.15	5.89	3.86	2.59	2.13	1.14
1.75V	67.8	47.4	37.0	22.9	13.7	10.1	8.09	5.84	3.83	2.57	2.12	1.13
1.80V	60.8	43.6	34.5	22.0	13.4	10.0	7.95	5.74	3.76	2.53	2.09	1.12
1.85V	51.7	39.2	31.0	20.7	12.7	9.59	7.63	5.52	3.62	2.45	2.02	1.09

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	854	575	443	271	163	121	96.1	69.5	46.0	31.2	25.8	14.0
1.67V	807	561	438	270	162	120	95.8	69.2	45.8	31.1	25.7	13.9
1.70V	781	551	433	268	161	119	95.6	69.1	45.7	31.0	25.6	13.8
1.75V	732	528	420	264	160	118	95.1	68.7	45.5	30.9	25.5	13.7
1.80V	671	497	396	257	157	117	93.8	67.7	44.9	30.5	25.2	13.6
1.85V	581	461	364	244	151	114	90.5	65.4	43.4	29.5	24.5	13.4

Issued: 200928

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: +886-2-2888-3300

BEIJING OFFICE (CHINA)

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