



# GP series GP 12120



## Valve Regulated Lead Acid Battery

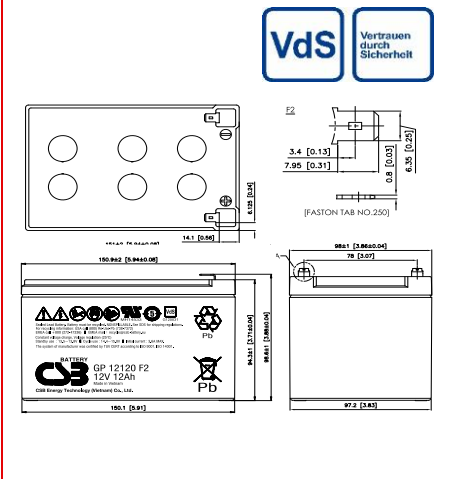
Maintenance-Free Sealed Lead Acid Battery.  
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

### General Design for Standby Power Applications

<b>【Design Life】</b> Up to 5 Years in Standby Service at 25°C Eurobat (20°C) : 3-5 YEARS STANDARD COMMERCIAL	<b>【Float Charging Voltage】</b> 13.5 ~ 13.8 VDC/Unit at 25°C (77°F)
<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)	<b>【Equalization Charging Voltage】</b> 14.4 ~ 15.0 VDC/Unit at 25°C (77°F)
	<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).

### 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. 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 tightening 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	144.0	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](http://www.csb-battery.com)

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Recognized under UL 1989,  
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