GP Series

GP 121000 Datasheet

12V Top Terminal VRLA-AGM

Specifications	
Voltage (Vdc)	12
Nominal Capacity (1.75 VPC @25°C)	100 Ah @ 20 hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	94.4
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	102
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	92.0
Max Charge Current (A)	30.00
Max Discharge Current (A)	800
Short Circuit Current (A)	2323
Internal Resistance (mΩ)	Approx. 4.4
Terminal Type	I2 accept M6 bolt
Terminal Torque	51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.10±1.0 N·m
Container Material	PP (UL 94-HB) & Flame Retardant (94-V0) available upon request
Weight (kg. / lb., Approx.)	30.6 / 67.44
Length (L) (mm / in)	343.0±2.5 / 13.50±0.10
Width (W) (mm / in)	170.0±2.0 / 6.69±0.08
Height (H) (mm / in)	216.9±2.5 / 8.54±0.10
Design Life	Up to 5 Years in Standby Service at 25°C Eurobat (20°C): 3-5 Years Standard Commercial
Operating Temperature	Nominal: 25°C (77°F) Discharge: -15°C - 50°C (5°F-122°F) Charge/Storage: -15°C - 40°C (5°F – 104°F)
Float Charging Voltage	13.5 - 13.8 Vdc/battery 25°C (77°F)
Eq. Charging Voltage	14.4 - 15.0 Vdc/battery 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).

Valve Regulated Lead Acid (VRLA) Battery

Maintenance-Free, Absorbent Glass Mat (AGM) Technology for Efficient Gas Recombination of up to 99%

Pure Lead Construction and Proprietary Elements

Designed for Float Service Standby Power Applications

Built in Accordance with IEC 60896-21/22:2004 and UL1989 Recognized (MH14533)

MH14533

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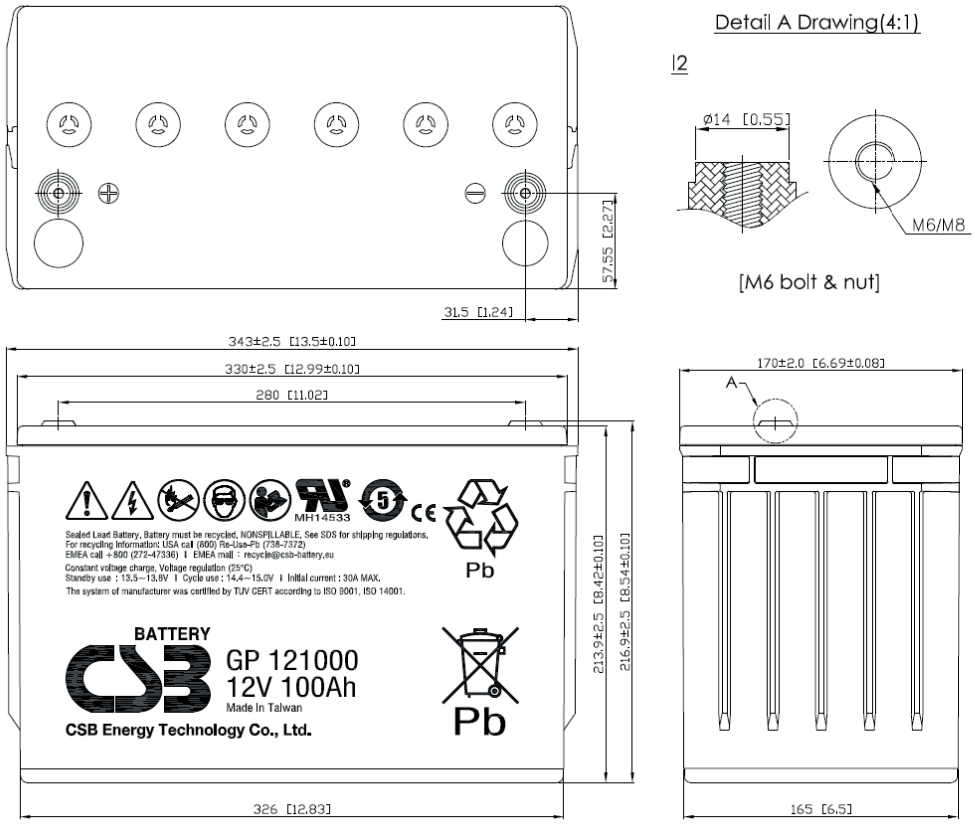
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	**5MIN**	**10MIN**	**15MIN**	**30MIN**	**60MIN**	**90MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
10.02V (1.67 VPC)	326	242	187	117	68.8	49.5	39.2	28.6	18.3	12.1	9.94	5.23
10.50V (1.75 VPC)	286	213	175	113	66.8	48.3	38.4	27.9	17.9	11.8	9.72	5.10
10.80V (1.80 VPC)	241	192	157	105	65.4	47.3	37.6	27.3	17.5	11.5	9.59	5.00

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**
10.02V (1.67 VPC)	3463	2557	2094	1325	785	569	453	328	213	141	115	60.5
10.50V (1.75 VPC)	2954	2359	1931	1267	763	553	441	320	208	138	113	59.5
10.80V (1.80 VPC)	2675	2222	1815	1218	746	542	432	313	203	135	111	58.9