GPL Series

GPL 121000 Datasheet

12V Top Terminal VRLA-AGM

Specifications	
Voltage (Vdc)	12
Nominal Capacity (1.75 VPC @25°C)	100 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	95.20
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	103.80
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	94.40
Max Charge Current (A)	30.00
Max Discharge Current (A)	800
Short Circuit Current (A)	2606
Internal Resistance (mΩ)	Approx. 3.2
Terminal Type	I2 thread lead alloy terminal to 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.)	33.50 / 73.83
Length (L) (mm / in)	343.0±2.5 / 13.50±0.10
Width (W) (mm / in)	170.0±2.0 / 6.69±0.0
Height (H) (mm / in)	216.9±2.5 / 8.54±0.10
Design Life	Up to 10 Years in Standby Service at 25°C Eurobat (20°C): >12 Years Very Long Life
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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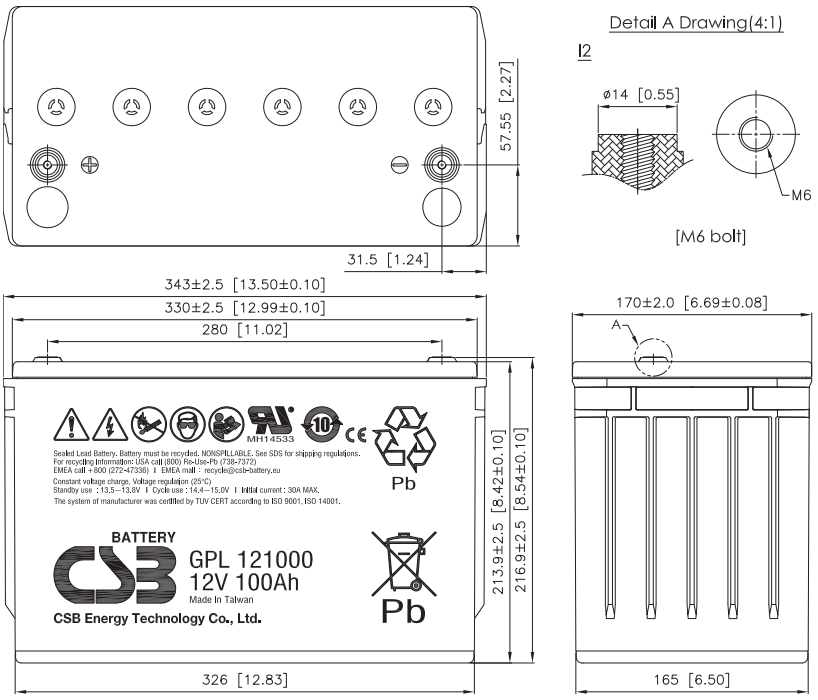
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	**5MIN**	**10MIN**	**15MIN**	**30MIN**	**60MIN**	**90MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
10.02V (1.67 VPC)	375	266	207	125	72.4	51.7	40.7	29.0	18.8	12.1	9.93	5.22
10.50V (1.75 VPC)	317	240	194	120	71.1	50.9	40.2	28.6	18.5	11.9	9.81	5.19
10.80V (1.80 VPC)	283	219	183	115	68.9	49.6	39.3	27.9	18.2	11.8	9.66	5.09

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**
10.02V (1.67 VPC)	4008	2837	2273	1417	843	607	480	340	222	152	124	63.3
10.50V (1.75 VPC)	3572	2623	2181	1372	830	599	475	337	220	150	122	62.4
10.80V (1.80 VPC)	3184	2442	2049	1316	809	585	465	331	217	148	121	61.4