GPL Series

GPL 12800 Datasheet

12V Top Terminal VRLA-AGM

Specifications	
Voltage (Vdc)	12
Nominal Capacity (1.75 VPC @25°C)	80 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	75.04
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	80.80
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	73.36
Max Charge Current (A)	24.00
Max Discharge Current (A)	800
Short Circuit Current (A)	1933
Internal Resistance (mΩ)	Approx. 4.0
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.)	25.60 / 56.42
Length (L) (mm / in)	261.0±2.5 / 10.28±0.10
Width (W) (mm / in)	168.5±2.0 / 6.63±0.08
Height (H) (mm / in)	213.5±2.5 / 8.41±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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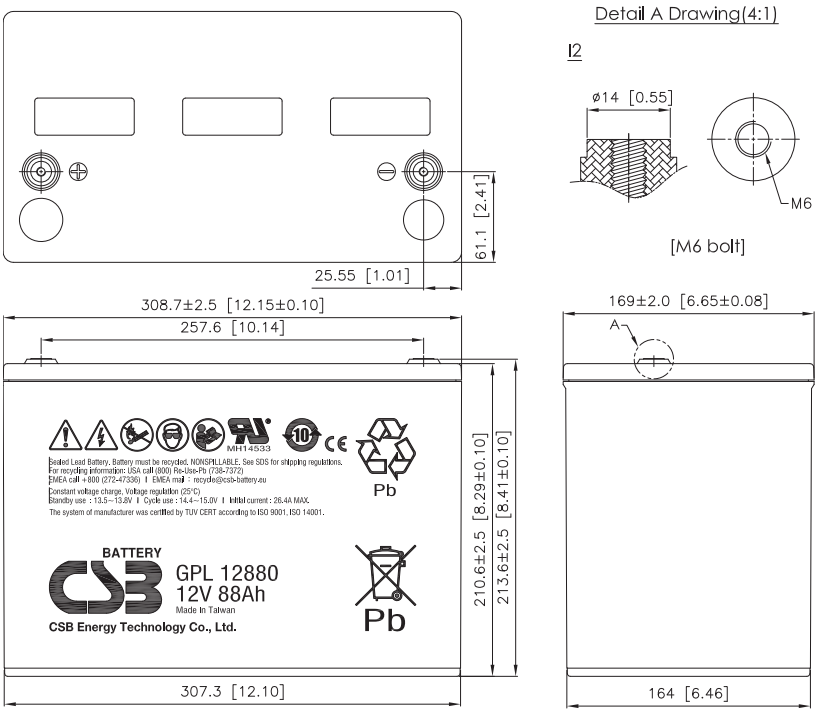
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	**5MIN**	**10MIN**	**15MIN**	**30MIN**	**60MIN**	**90MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
10.02V (1.67 VPC)	274	191	146	86.7	53.2	38.6	30.7	21.7	14.4	9.46	7.78	4.13
10.50V (1.75 VPC)	234	170	139	84.4	51.4	37.4	29.9	21.4	14.1	9.38	7.63	4.04
10.80V (1.80 VPC)	210	158	131	81.9	50.2	36.8	29.5	21.0	13.8	9.17	7.55	3.97

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)	2818	2060	1635	996	612	452	365	260	172	115	92.9	49.4
10.50V (1.75 VPC)	2553	1927	1558	976	603	447	361	257	170	113	92.3	49.0
10.80V (1.80 VPC)	2371	1815	1478	949	592	440	356	254	168	111	91.0	48.7