GP Series

GP 12170 Datasheet

12V Top Terminal VRLA-AGM

Specifications	
Voltage (Vdc)	12
Nominal Capacity (1.75 VPC @25°C)	17 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	18.56
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	18.20
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	18.40
Max Charge Current (A)	5.10
Max Discharge Current (A)	230
Short Circuit Current (A)	532
Internal Resistance (mΩ)	Approx. 14.0
Terminal Type	B1/B1B/B3 accept M5 bolt
Terminal Torque	30.4±6.1 Kgf·cm / 3.0±0.6 N·m 26.4±5.3 Lbf·in
Container Material	ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request.
Weight (kg. / lb., Approx.)	5.50 / 12.12
Length (L) (mm / in)	181.0±2.0 mm 7.13±0.08 inch
Width (W) (mm / in)	76.2±1.0 mm 3.00±0.04 inch
Height (H) (mm / in)	167.0±2.0 mm 6.57±0.08 inch
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 61056-1/2:2012 and UL1989 Recognized (MH14533)

MH14533

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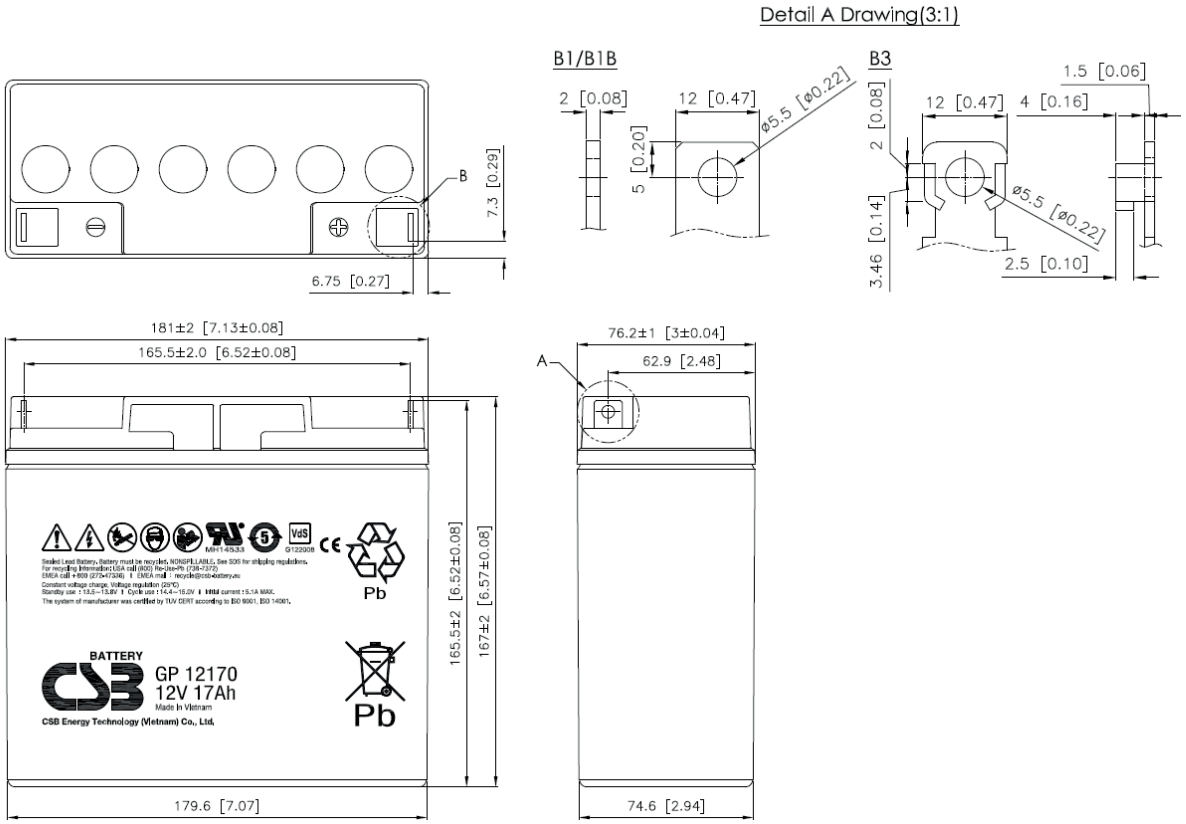
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	**5MIN**	**10MIN**	**15MIN**	**30MIN**	**60MIN**	**90MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
10.02V (1.67 VPC)	71.2	47.5	36.5	22.9	13.7	10.0	7.99	5.69	3.61	2.35	1.90	0.95
10.50V (1.75 VPC)	61.0	43.1	34.1	22.3	13.4	9.86	7.92	5.64	3.59	2.32	1.86	0.91
10.80V (1.80 VPC)	54.5	40.2	32.7	21.8	13.3	9.79	7.87	5.61	3.58	2.30	1.83	0.88

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)	790	544	423	275	164.0	120.0	96.0	68.5	43.4	28.3	22.8	11.5
10.50V (1.75 VPC)	677	493	395	267	161.0	119.0	95.3	67.9	43.2	27.9	22.4	10.9
10.80V (1.80 VPC)	605	460	377	261	160.0	118.0	94.6	67.3	43.0	27.6	22.0	10.5