GP Series

GP 1272 Datasheet

12V Top Terminal VRLA-AGM

Specifications	
Voltage (Vdc)	12
Nominal Capacity (1.75 VPC @25°C)	7.2Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	7.46
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	8.24
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	7.37
Max Charge Current (A)	2.16
Max Discharge Current (A)	130 *
Short Circuit Current (A)	276
Internal Resistance (mΩ)	Approx. 23.0
Terminal Type	F2 terminal -Faston Tab 250 *
Terminal Torque	--
Container Material	ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request.
Weight (kg. / lb., Approx.)	2.40 / 5.29
Length (L) (mm / in)	150.9±2. / 5.94±0.08
Width (W) (mm / in)	64.8±1.0 / 2.55±0.04
Height (H) (mm / in)	98.6±1.0 / 3.88±0.04
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

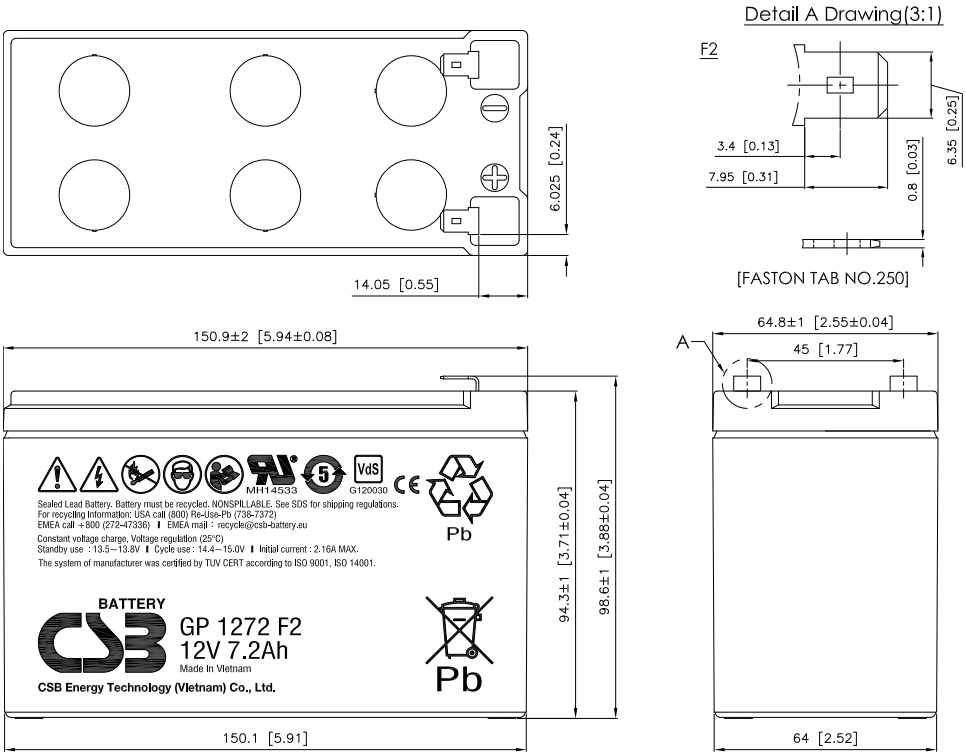
GP Series

GP 1272 Datasheet

12V Top Terminal VRLA-AGM

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)	32.8	20.8	15.3	8.87	5.14	3.73	2.96	2.14	1.41	0.937	0.771	0.415
10.50V (1.75 VPC)	30.0	19.8	14.8	8.72	5.09	3.71	2.94	2.12	1.39	0.932	0.767	0.412
10.80V (1.80 VPC)	27.6	18.6	14.2	8.49	4.99	3.66	2.91	2.10	1.38	0.921	0.758	0.407

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)	352	230	172	103	60.2	44.0	35.0	25.3	17.0	11.4	9.43	5.03
10.50V (1.75 VPC)	329	219	168	101	59.8	43.8	34.8	25.1	16.8	11.2	9.39	5.01
10.80V (1.80 VPC)	304	207	162	100	58.9	43.3	34.5	25.0	16.7	11.1	9.31	4.95



* F1 terminal is available, Max Discharge Current = 100 A

GP Series

GP 12120 Datasheet

12V Top Terminal VRLA-AGM

Specifications	
Voltage (Vdc)	12
Nominal Capacity (1.75 VPC @25°C)	12 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	11.2
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	12.0
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	10.96
Max Charge Current (A)	3.60
Max Discharge Current (A)	180
Short Circuit Current (A)	378
Internal Resistance (mΩ)	Approx. 16.7
Terminal Type	F2 terminal -Faston Tab 250 *
Terminal Torque	--
Container Material	ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request.
Weight (kg. / lb., Approx.)	3.67 / 8.09
Length (L) (mm / in)	151.0±2.0 / 5.94±0.08
Width (W) (mm / in)	98.0±1.0 / 3.86±0.04
Height (H) (mm / in)	100.3±1.5 / 3.95±0.06
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

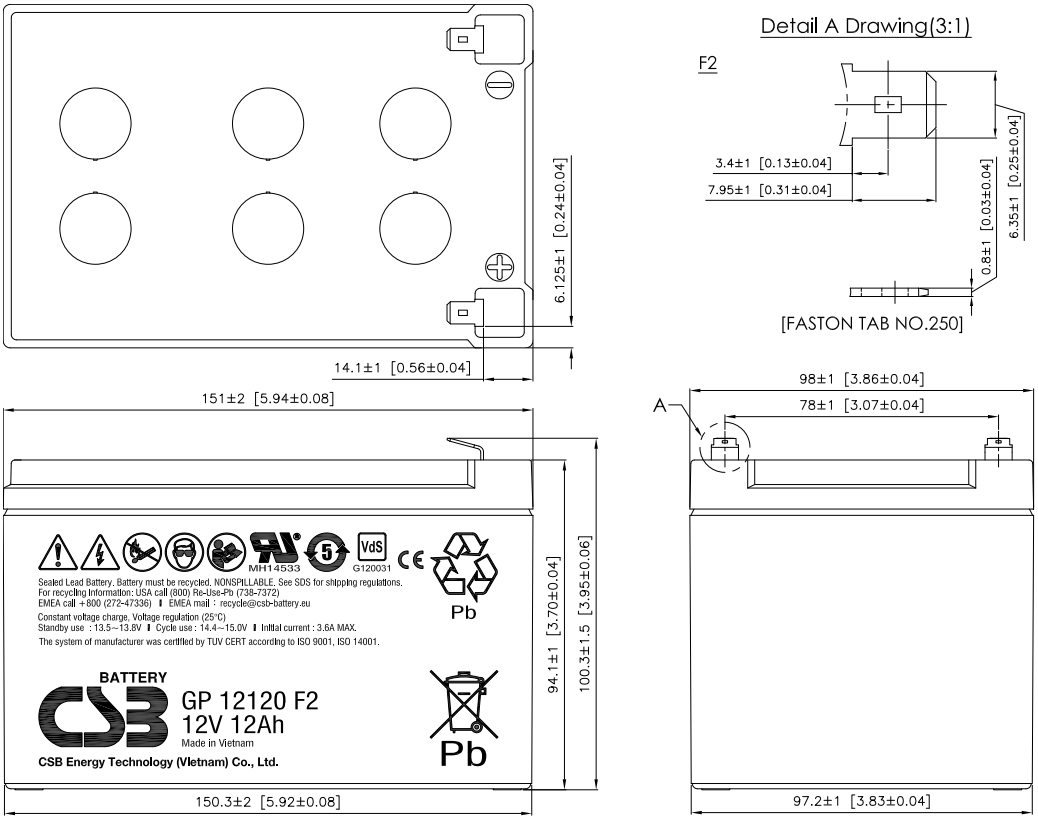
GP Series

GP 12120 Datasheet

12V Top Terminal VRLA-AGM

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)	48.2	32.0	23.6	13.7	8.12	5.84	4.62	3.35	2.21	1.44	1.18	0.62
10.50V (1.75 VPC)	43.3	30.0	22.6	13.4	8.03	5.77	4.57	3.26	2.13	1.40	1.15	0.60
10.80V (1.80 VPC)	38.8	28.0	21.5	13.0	7.81	5.64	4.48	3.17	2.06	1.37	1.14	0.59

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)	515	342	265	159	97.7	70.2	55.6	39.3	25.2	16.6	13.7	7.63
10.50V (1.75 VPC)	462	326	256	156	96.1	69.3	54.9	38.5	24.4	16.2	13.4	7.54
10.80V (1.80 VPC)	418	307	243	153	94.8	68.0	53.7	37.7	24.1	15.8	13.1	7.42



* F1 terminal is available, Max Discharge Current = 150 A

GP Series

GP 12260 Datasheet

12V Top Terminal VRLA-AGM

Specifications	
Voltage (Vdc)	12
Nominal Capacity (1.75 VPC @25°C)	26 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	27.1
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	27.4
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	26.8
Max Charge Current (A)	7.80
Max Discharge Current (A)	350
Short Circuit Current (A)	635
Internal Resistance (mΩ)	Approx. 9.9
Terminal Type	I1 thread lead alloy terminal to accept M5 bolt
Terminal Torque	30.4±6.1 Kgf·cm / 26.4±5.3 Lbf·in / 3.0±0.6 N·m
Container Material	ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request.
Weight (kg. / lb., Approx.)	8.45 / 18.62
Length (L) (mm / in)	166.0±2.0 / 6.54±0.08
Width (W) (mm / in)	175.0±2.0 / 6.89±0.08
Height (H) (mm / in)	125.0±1.5 / 4.92±0.06
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

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Pure Lead Construction and Proprietary Elements

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MH14533

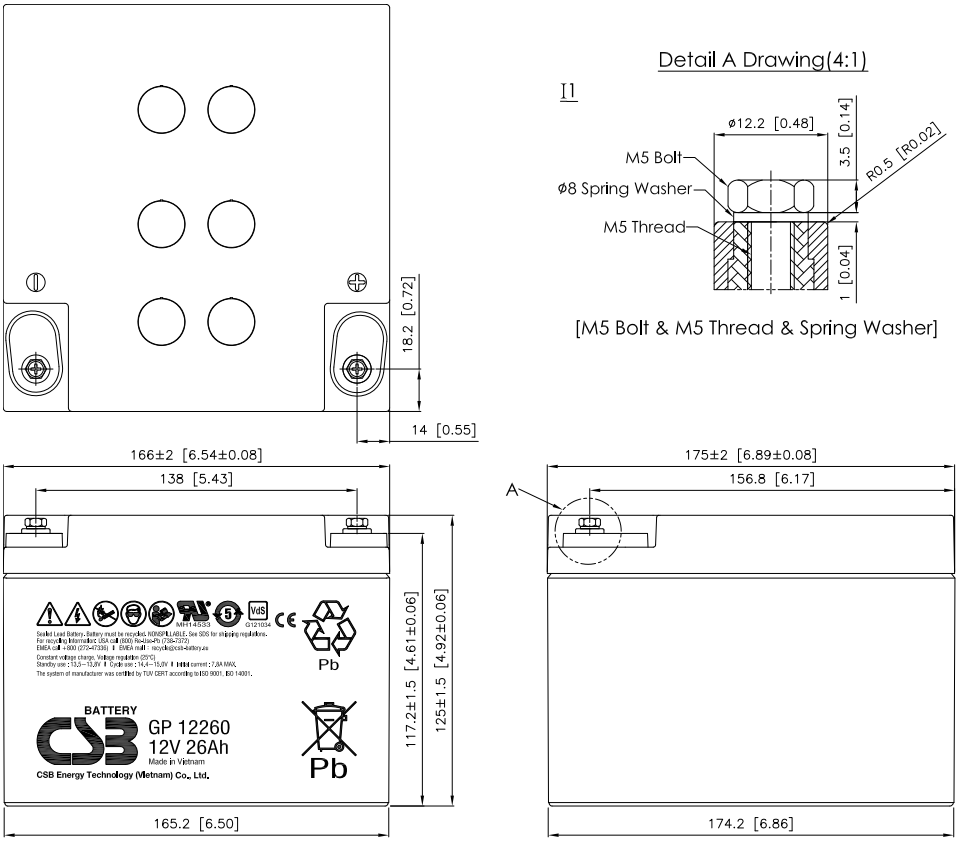
GP Series

GP 12260 Datasheet

12V Top Terminal VRLA-AGM

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)	99.0	65.9	51.1	32.3	19.5	14.2	11.4	8.13	5.23	3.43	2.79	1.42
10.50V (1.75 VPC)	89.7	62.0	49.0	31.6	19.3	14.0	11.2	8.11	5.21	3.38	2.74	1.37
10.80V (1.80 VPC)	83.3	59.4	47.5	31.1	19.2	13.9	11.1	8.10	5.19	3.35	2.70	1.33

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)	1181	790	610	385	234	171	137	97.6	62.8	41.2	33.5	17.1
10.50V (1.75 VPC)	1071	744	586	378	232	169	135	97.4	62.6	40.6	32.9	16.5
10.80V (1.80 VPC)	999	713	570	373	231	168	134	97.3	62.3	40.2	32.4	16.0



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

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MH14533

GP Series

GP 121000 Datasheet

12V Top Terminal VRLA-AGM

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