GP Series

GP645 Datasheet

6V Top Terminal VRLA-AGM

Specifications	
Voltage (Vdc)	6
Nominal Capacity	4.5 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	4.24
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	4.58
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	4.18
Max Charge Current (A)	1.35
Max Discharge Current (A)	60(F1) / 90(F2) (5 sec)
Short Circuit Current (A)	151 (5 sec)
Internal Resistance (mΩ)	Approx. 18.5
Terminal Type	F1 - 90° Terminal -Faston Tab 187 F2 - Terminal -Faston Tab 250
Terminal Torque	--
Container Material	ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request.
Weight (kg. / lb.)	0.87 / 1.92
Length (L) (mm / in)	70.0±1.0 / 2.76±0.04
Width (W) (mm / in)	48.0±1.0 / 1.89±0.04
Height (H) (mm / in)	106.6±1.5 / 4.20±0.06 (F1 Terminal) 107.5±1.5 / 4.23±0.06 (F2 Terminal)
Design Life	Up to 5 Years in Standby Service at 25℃ ; Eurobat (20℃): 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	6.75 – 6.90 Vdc/battery 25°C (77°F)
Eq. Charging Voltage	7.20 – 7.50 Vdc/battery 25°C (77°F)
Self-Discharge	Less than 10% after 90 days, can be stored up to 6 months and 10 months with equalization charge* at 25C (77F); Full recharging is required before usage, and charged sooner if stored at higher temperature than 25C (77F).

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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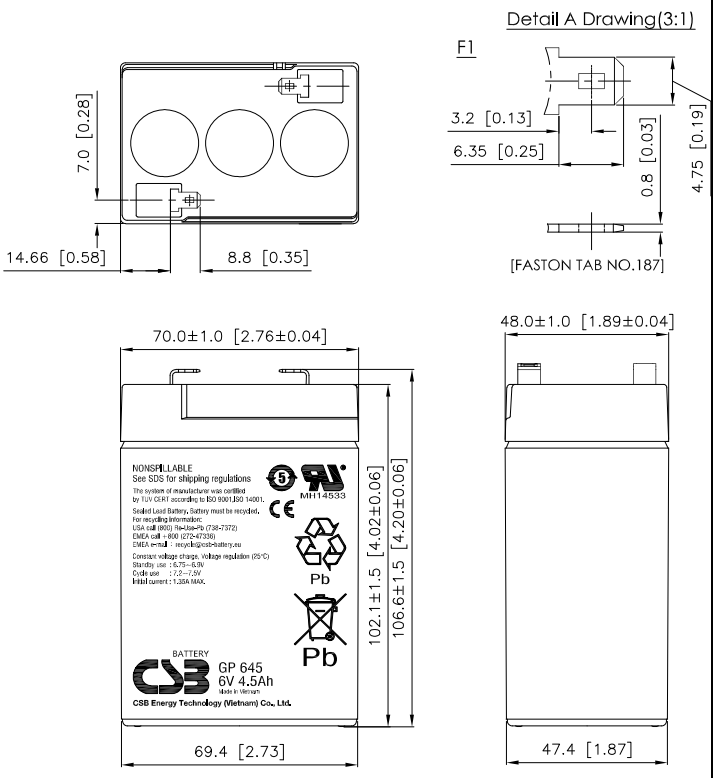
6V Top Terminal VRLA-AGM

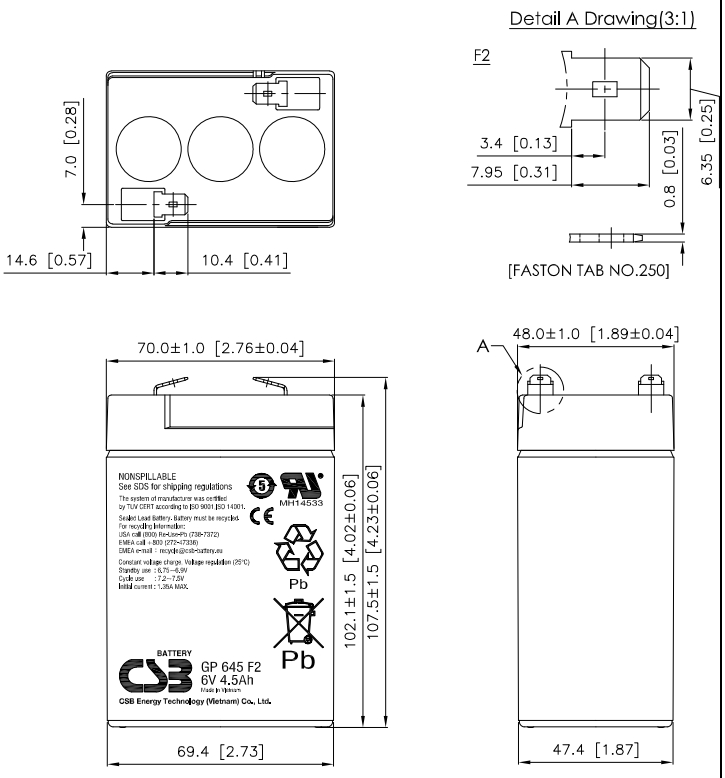
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	**5 MIN**	**10MIN**	**15MIN**	**30MIN**	**60MIN**	**90MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
10.02V (1.67VPC)	17.2	11.2	8.51	4.99	2.87	2.07	1.65	1.20	0.792	0.533	0.438	0.233
10.50V (1.75VPC)	15.4	10.5	8.22	4.91	2.84	2.05	1.63	1.18	0.785	0.531	0.435	0.229
10.80V (1.80VPC)	13.8	9.82	7.78	4.77	2.79	2.03	1.62	1.17	0.775	0.523	0.431	0.225

Constant Power Discharge Characteristics Unit: W (25°C, 77°F)												
F.V/Time	**5 MIN**	**10MIN**	**15MIN**	**30MIN**	**60MIN**	**90MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
10.02V (1.67VPC)	91.0	61.2	46.8	28.4	16.6	12.0	9.67	7.03	4.69	3.18	2.65	1.33
10.50V (1.75VPC)	83.8	58.4	45.4	28.0	16.4	11.8	9.61	6.99	4.66	3.16	2.63	1.31
10.80V (1.80VPC)	77.6	55.1	43.3	27.4	16.3	11.7	9.49	6.92	4.61	3.14	2.61	1.30

F1 - 90° Terminal -Faston Tab 187



F2 - Terminal -Faston Tab 250



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