GP Series

GP 645 Datasheet

6V Top Terminal VRLA-AGM

Specifications	
Voltage (Vdc)	6
Nominal Capacity (1.75 VPC @25°C)	4.5 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	4.25
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	4.58
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	4.23
Max Charge Current (A)	1.35
Max Discharge Current (A)	90 *
Short Circuit Current (A)	137
Internal Resistance (mΩ)	Approx. 18.5
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.)	0.84 / 1.85
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)	107.5±1.5 / 4.23±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	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 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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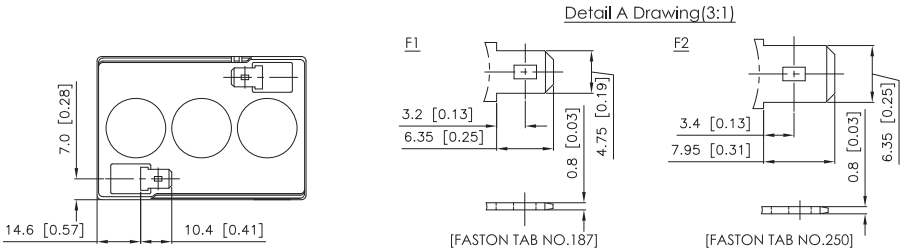
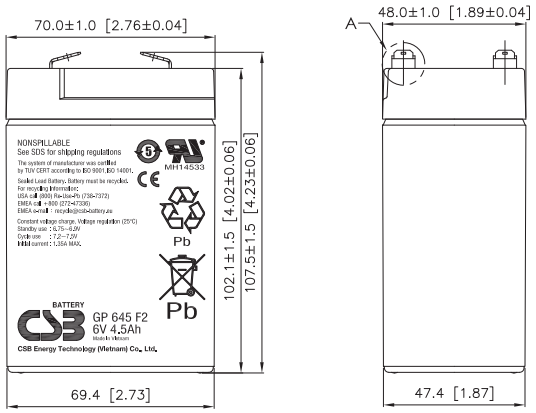
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	**5MIN**	**10MIN**	**15MIN**	**30MIN**	**60MIN**	**90MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
5.01V (1.67 VPC)	17.6	11.8	8.88	5.31	3.09	2.25	1.79	1.25	0.808	0.533	0.438	0.233
5.25V (1.75 VPC)	16.1	11.2	8.62	5.21	3.06	2.22	1.77	1.23	0.804	0.531	0.435	0.229
5.40V (1.80 VPC)	15.0	10.7	8.42	5.13	3.03	2.21	1.76	1.22	0.801	0.529	0.431	0.225

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**
5.01V (1.67 VPC)	103	69.7	53.3	32.7	19.2	13.9	11.0	7.98	5.29	3.54	2.89	1.59
5.25V (1.75 VPC)	93.9	66.4	51.2	32.3	19.0	13.7	10.8	7.87	5.21	3.51	2.87	1.57
5.40V (1.80 VPC)	88.5	64.1	50.0	31.8	18.8	13.5	10.7	7.85	5.16	3.48	2.85	1.56





* F1 terminal is available, Max Discharge Current = 60 A