

ENGLISH

Datasheet Sealed Lead-Acid Battery General Purpose Specification

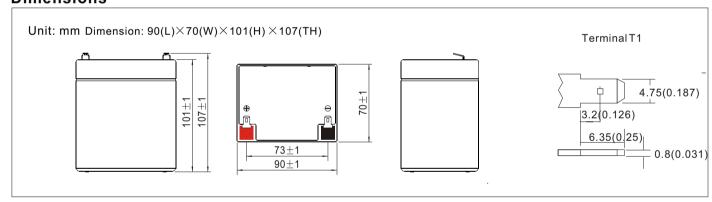
686-7253(12V5.0Ah)

Cells Per Unit	6					
Voltage Per Unit	12					
Capacity	5.0Ah@20hr-rate to 1.80V per cell @25°C					
Weight	Approx1.68 kg					
Max. Discharge Current	75A (5 sec)					
Internal Resistance	Approx 45mΩ					
Operating Temp.Range	Discharge : $-15\sim50^{\circ}\text{C}$ (5 \sim 122 $^{\circ}\text{F}$) Charge : $0\sim40^{\circ}\text{C}$ (32 \sim 104 $^{\circ}\text{F}$) Storage : $-15\sim40^{\circ}\text{C}$ (5 \sim 104 $^{\circ}\text{F}$)					
Nominal Operating Temp. Range	25±3°C (77±5°F)					
Float charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C					
Recommended Maximum Charging Current Limit	1.5A					
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C					
Self Discharge	The batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.					
Terminal	Faston Tab 187(T1)					
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V0 can be available upon request.					

Applications

- ♦ All purpose
- ♦ Uninterruptable Power Supply (UPS)
- ♦ Electric Power System (EPS)
- Emergency backup power supply
- ♦ Emergency light
- Railway signal
- ♦ Aircraft signal
- ♦ Alarm and security system
- Electronic apparatus and equipment
- ♦ Communication power supply
- ♦ DC power supply
- ♦ Auto control system

Dimensions

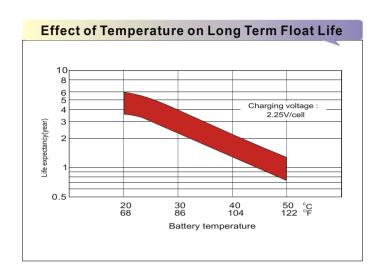


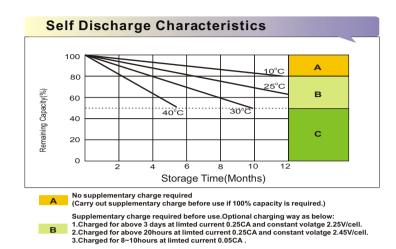
C	Constant Current Discharge Characteristics : A (25 °C)															
	F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
ſ	11.1V	9.52	6.33	5.22	4.59	3.76	2.93	2.43	1.49	1.12	0.924	0.784	0.679	0.540	0.451	0.248
ſ	10.8V	11.4	7.59	6.14	5.25	4.20	3.22	2.63	1.60	1.20	0.98	0.824	0.709	0.560	0.465	0.250
ſ	10.5V	13.7	8.70	6.82	5.81	4.50	3.45	2.78	1.67	1.24	1.01	0.847	0.729	0.575	0.477	0.253
ſ	10.2V	15.9	9.72	7.52	6.29	4.80	3.61	2.90	1.73	1.27	1.03	0.866	0.745	0.584	0.484	0.257
	9.9V	17.5	10.5	8.06	6.74	5.05	3.77	3.00	1.78	1.31	1.06	0.885	0.759	0.593	0.490	0.261
	9.6V	19.3	11.4	8.66	7.11	5.32	3.93	3.12	1.83	1.34	1.08	0.904	0.777	0.606	0.499	0.262

Co	Constant Power Discharge Characteristics : W (25 °C)															
	F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
	11.1V	106.6	71.1	58.9	51.9	42.9	33.8	28.2	17.4	13.1	10.8	9.22	8.01	6.39	5.36	2.94
	10.8V	123.7	83.4	68.1	58.9	47.6	36.8	30.3	18.5	14.0	11.5	9.65	8.33	6.61	5.51	2.97
	10.5V	147.0	94.7	75.0	64.6	50.5	39.2	31.9	19.2	14.4	11.7	9.88	8.54	6.78	5.64	2.99
	10.2V	168.2	104.3	81.9	69.4	53.6	40.8	33.1	19.8	14.7	12.0	10.1	8.71	6.87	5.73	3.04
	9.9V	182.8	111.4	86.7	73.6	56.0	42.4	34.1	20.4	15.0	12.2	10.3	8.85	6.96	5.79	3.08
	9.6V	197.9	118.8	91.5	76.5	58.2	43.7	35.2	20.8	15.3	12.5	10.5	9.03	7.10	5.88	3.10

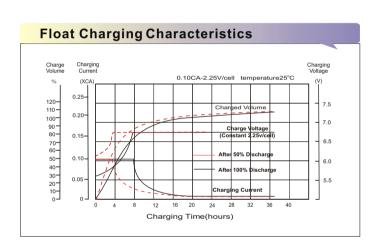


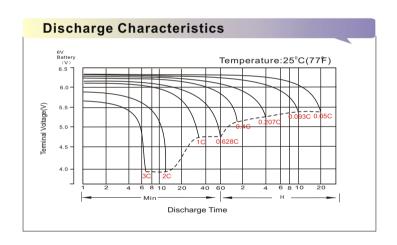
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Supplementary charge may often fail to recover the capacity The battery should never be left standing till this is reached.





Capacity Factors With Different Temperature

Battery	Туре	-20℃	-10℃	0℃	5℃	10℃	20℃	25℃	30℃	40℃	45℃
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.80V	1.75V	1.60V		
Discharge Current (A)	(A) ≤0.2C	0.2C< (A) <1.0C	(A) ≥1.0C		

Charge the batteries at least once every six months, if they are stored at 25° C.

Charging Method:

Constant Voltage	-0.2Cx2h+2.4~2.45V/Cellx24h,Max. Current 0.3CA
Constant Current	-0.2Cx2h+0.1CAx 12h
Fast	-0.2Cx2h+0.3CAx4.0h

Maintenance & Cautions

Float Service:

- $\blacklozenge \textit{very month}, \textit{recommend inspection every battery voltage}.$
- ◆Every three months, recommend equalization charge for one time.

Equalization charge method:

Discharge: 100% rate capacity discharge.

Charge: Max. current0.3CA, constant voltage2.35V/Cell charge 24h.

- ◆Effect of temperature on float charge voltage: -3mV/℃/Cell.
- ◆Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.