

Motorcycle Battery

MG7-12-01



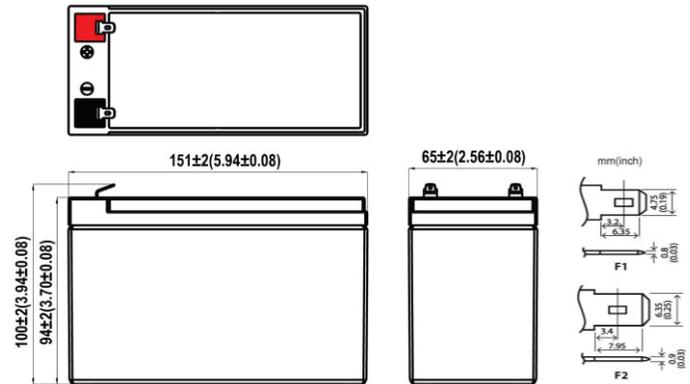
SPECIFICATION

Cell per unit	6
Nominal Voltage (V)	12
Nominal Capacity (Ah) C20	7.0Ah at 20hour rate F.V(1.75/cell)
Weight	Approx 2.05kg
Internal Resistance	<24.5mΩ
Max Discharge Current (5s)	108A
Battery Design Life	Stand by : 3~5 years
Terminal Type	F1/F2
Container Material	ABS(94-HB & 94V-0 flame retardant case)
Ambient temperature	Charge 0°C(32°F) to 40°C (104°F) Discharge -15°C(5°F) to 50°C (122°F) Storage -15°C(5°F) to 40°C (104°F)

Charging Instruction (25°C):

Max charge current:	Max charge current : 2.16A
Cycle use :	Charge voltage: 14.4 to 15.0V
Stand by :	Charge voltage: 13.50 to 13.80V

DIMENSIONS	Length	Width	Height	Total Height
Unit: mm	151±2	65±2	94±2	100±2
Unit: inch	5.94±0.08	2.56±0.08	3.70±0.08	3.94±0.08



Constant current discharge characteristics Unit:A(25°C/77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	31.72	15.12	8.45	4.72	2.46	1.81	1.230	0.845	0.680	0.353
1.67V	30.80	14.68	8.37	4.67	2.43	1.79	1.223	0.840	0.677	0.352
1.70V	29.33	14.39	8.12	4.63	2.41	1.78	1.217	0.836	0.740	0.351
1.75V	27.67	14.04	8.06	4.54	2.39	1.76	1.211	0.832	0.670	0.350
1.80V	23.45	13.37	7.75	4.41	2.38	1.75	1.205	0.828	0.670	0.350

Constant power discharge characteristics Unit:W/cell(25°C/77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	57.60	28.95	16.55	9.36	4.65	3.65	2.477	1.715	1.378	0.726
1.67V	55.51	28.44	16.38	9.27	4.80	3.63	2.470	1.702	1.378	0.726
1.70V	53.30	27.75	16.16	9.15	4.76	3.60	2.462	1.679	1.375	0.723
1.75V	50.22	26.88	15.80	9.00	4.65	3.57	2.448	1.658	1.368	0.723
1.80V	43.37	25.68	15.22	8.72	4.50	3.50	2.412	1.632	1.347	0.709

APPLICATIONS

- All purpose
- Uninterruptable Power Supply(UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Electronic Cash Registers (ECR)

GENERAL FEATURES

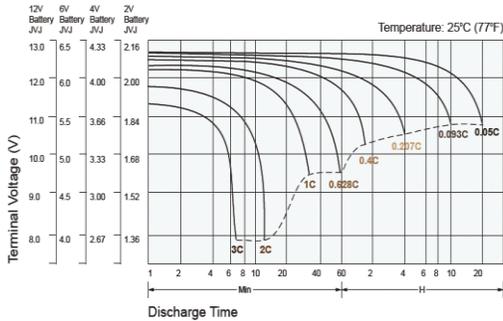
- 5 years design life (25°C)
- Lead calcium alloy, sealed design.
- Non spillable and maintenance free
- AGM separator application
- Designed for a wide range of applications

STANDARDS

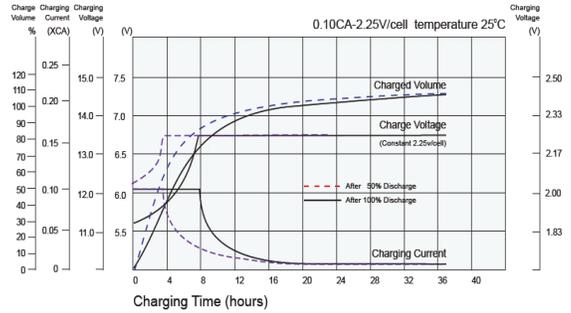
Compliance with IEC 60896 standards



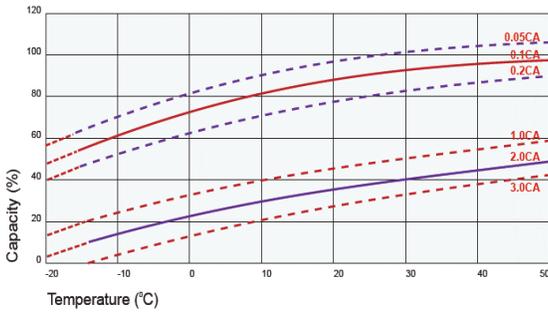
Battery Discharge Characteristics (25°C / 77°F)



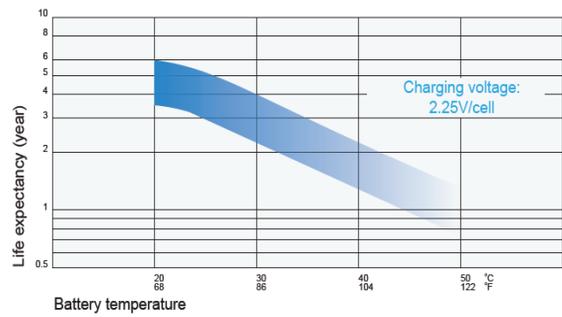
Battery Charge Characteristic for standby use



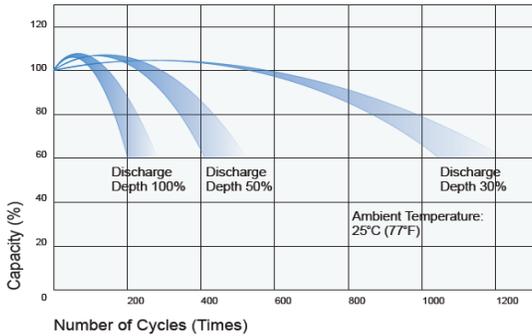
Temperature Effects in Relation to Battery Capacity



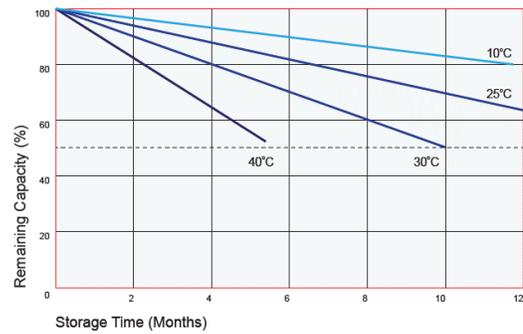
Temperature Effects on Long Term Float Life



Cycle Service Life



Self Discharge Characteristics



Charging Procedures

Application	Charge Voltage(V/cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.40-2.50	0.25C
Standby	25°C(77°F)	2.275	2.25-2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.70	1.65	1.60
Discharge Current (A)	0.2C >(A)	0.2C <(A) <0.5C	0.5C <(A) <1.0C	(A) >1.0C