



GOLF CART BATTERY

EV Series

EV6-300



The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

Battery Construction

COMPONENT	POSITIVE PLATE	NEGATIVE PLATE	CONTAINER	COVER	SAFETY VALVE	TERMINAL	SEPARATOR	ELECTROLYTE
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

Performance Characteristics

- **Nominal Voltage** 6V
- **Ampere Hour Capacity**
 - 20 Hours rate (16A, 5.4V) 320Ah
 - 10 Hours rate (30A, 5.4V) 300Ah
 - 5 Hours rate (56A, 5.25V) 280Ah
- **Minutes of Discharge**
 - 25A to 5.4V 770 56A to 5.25V 305
 - 75A to 5.1V 210 85A to 5.10V 185
 - 100A to 5.1V 150
- **Cranking Amps**
 - 32°F/0°C 1400 0°F/-18°C 1050
- **Internal Resistance**
 - Fully charged battery (77°F /25°C) 1.5mΩ
- **Self-Discharge (68°F /20°C)**
 - Capacity declined per month 3%
- **Opening temperature Range**
 - Discharge -20 ~ 60°C
 - Charge -10 ~ 50°C
 - Storage -20 ~ 60°C
- **Max. discharge current (77°F /25°C)** 1500A(5S)
- **Short Circuit Current** 2500A
- **Charge Methods: constant voltage charge (77°F /25°C)**
 - Cycle use 7.35 ~7.45V
 - Max. Current 75A
 - Standby use 6.80 ~ 6.90V

General Features

- **Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.**
- **Not restricted for air transport-complies with IATA/ICAO Special Provision A67.**
- **A recognized component of CE and UL**
- **Computer designed lead, calcium tin alloy grid for high power density.**
- **Long service life, float or cyclic applications.**
- **Maintenance-free operation.**
- **Low self discharge**
- **Design Life 10 years**

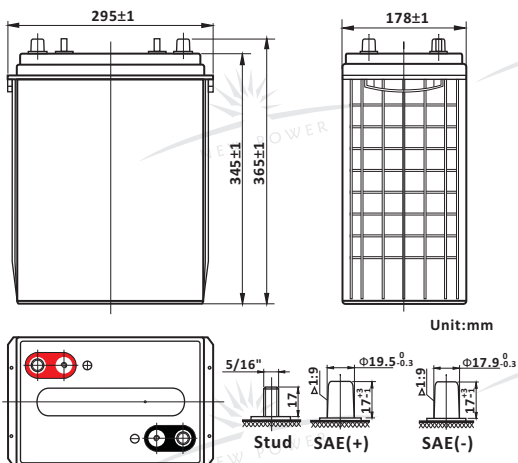
Constant Current Discharge (Amperes at 77°F/25°C)

V/cell	45min	1h	3h	5h	10h
1.60	250	200	89.2	57.4	30.8
1.65	241	196	88.2	57.0	30.7
1.70	231	191	87.0	56.5	30.5
1.75	221	185	85.8	56.0	30.3
1.80	210	177	84.3	55.4	30.0

Constant Power Discharge (Watts at 77°F/25°C)

V/cell	45min	1h	2h	3h	5h
1.60	445	370	228	169	118
1.65	429	358	223	167	117
1.70	412	345	218	165	116
1.75	394	332	212	162	115
1.80	375	318	206	158	113

(Note: The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.)



Dimensions and Weight

Type	Length	Width	Height	Total Height	Approx. Weight
SI Units	295mm	178mm	345mm	365mm	48Kg
English Units	11.6inch	7.01inch	13.6inch	14.4inch	105.8lbs



