



D121000DR 12V 100Ah(20hr)

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

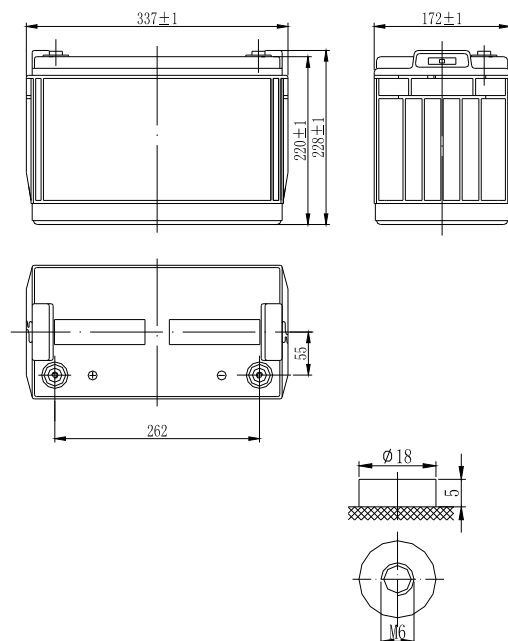
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	PP	PP	Rubber	Copper	Fiberglass	Sulfuric acid

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.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

Dimensions and Weight

Length(mm / inch)	337 / 13.27
Width(mm / inch)	172 / 6.77
Height(mm / inch)	220 / 8.66
Total Height(mm / inch)	228 / 8.98
Approx. Weight(Kg / lbs)	33 / 72.8



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 77°F(25°C)	
20 hour rate (5A, 10.5V)	100Ah
10 hour rate (9.55A, 10.5V)	95.5Ah
5 hour rate (16.7A, 10.5V)	83.5Ah
1 hour rate (61.6A, 9.6V)	61.6Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	4.5mOhms
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	900A(5s)
Short Circuit Current	2100A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	14.4-14.7V
Maximum charging current	30A
Temperature compensation	-30mV/°C
Standby use	13.6-13.8V
Temperature compensation	-20mV/°C

Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	313	214	177	100	61.6	25.2	17.6	9.85	5.15
1.65V	287	201	168	96.0	61.2	24.7	17.3	9.80	5.10
1.70V	262	186	159	93.1	61.5	24.2	17.1	9.75	5.04
1.75V	235	174	148	90.2	59.6	23.6	16.7	9.55	5.00
1.80V	208	159	139	88.3	57.7	22.9	16.4	9.25	4.80

Discharge Constant Power (Watts at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	539	380	310	188	140	120	68.5	48.6	34.0
1.65V	501	361	306	182	136	118	67.4	48.0	33.8
1.70V	464	342	296	178	133	117	66.1	47.5	33.5
1.75V	428	324	285	172	130	113	64.9	46.9	33.3
1.80V	389	303	275	166	127	111	64.3	46.2	33.0



D121000DR 12V100Ah

