



TPD12-120 12V 120Ah

MAINTENANCE-FREE RECHARGEABLE BATTERY FOR HIGH RATE USE

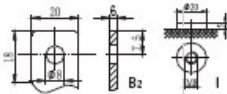
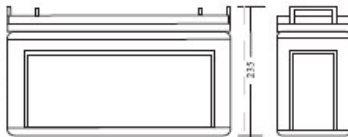
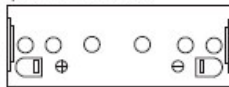


General Features

- 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)	405/15.94
Width(mm / inch)	176 / 6.93
Height(mm / inch)	227 / 8.94
Total Height(mm / inch)	235/9.26
Approx. Weight(Kg / lbs)	38 / 83.8
Standard Terminal	B2
Optional Terminal	I



Specification

Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 77°F(25°C)	
10 hour rate (12A, 10.5V)	120AH
5 hour rate (19.92A, 10.5V)	99.6AH
1 hour rate (78A, 9.6V)	78AH
Internal Resistance	
Fully Charged battery 77°F(25°C)	4.3mOhms
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)	950A(5s)
Short Circuit Current	2250A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	14.4-14.7V
Maximum charging current	36A
Temperature compensation	-30mV/°C
Standby use	13.6-13.8V
Temperature compensation	-20mV/°C

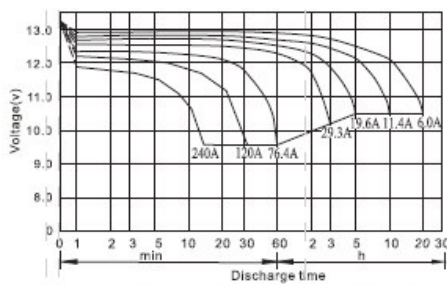
Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h
1.60V	448	321	234	138	78.0	31.3	20.4	12.4
1.65V	436	306	229	135	77.6	31.2	20.2	12.3
1.70V	411	295	225	134	76.9	30.9	20.1	12.2
1.75V	369	272	215	131	76.2	30.8	19.9	12.1
1.80V	333	248	198	125	74.4	30.0	19.5	12.0

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

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h
1.60V	799	583	430	257	147	59.8	38.9	23.2
1.65V	782	557	420	254	146	59.5	38.7	23.0
1.70V	738	539	414	254	146	59.3	38.5	22.8
1.75V	664	497	395	245	144	58.9	38.3	22.6
1.80V	598	452	363	234	140	57.5	37.8	22.4

Discharge characteristic (25°C)



Constant voltage charging characteristic (0.25CA, 25°C)

