



FEATURES

Amstron AP12-75 Rechargeable Sealed Lead Acid Battery is designed with AGM (Absorbent Glass Mat) technology, high performance plates and electrolyte to produce extra output power for common power backup system applications. This battery uses a state of the art, heavy-duty, calcium-alloy grid that provides exceptional performance and service life in both float and cyclic applications.

- Air & Transport Approved: DOT, IATA, FAA
- UL recognized under file number MH47341
- Rugged impact resistant ABS case and cover (UL94-HB)
- Flame Retardant (UL94V-0) Optional
- Sealed and maintenance free operation
- Non-Spill construction design
- Valve Regulated Lead Battery (VRLA) Safety venting valve for pressure release

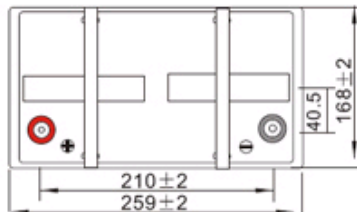
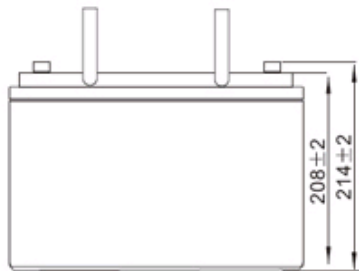
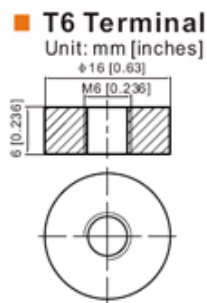
PERFORMANCE SPECIFICATIONS

Voltage per unit			12 Volts
Cell per unit			6 cells
Nominal Capacity (10.50 Volts)			
20 hr.		3.90A / 78.0Ah	
10 hr.		7.50A / 75.0Ah	
5 hr.		12.9A / 64.5Ah	
1 hr.		45.8A / 45.8Ah	
Approximate Weight			51.8 lb / 23.50 kg
Energy Density			1.63 W-h/in3 (99.61 W-h/l)
Specific Density			17.79 W-h/lb (39.21 W-h/kg)
Internal Resistance			(Approx.) 6mΩ
Max Discharge Current			225A (7 mins.)
Max Short-Duration Discharge Current			560A (10 sec.)
Shelf Life			
1 Month	3 Months	6 Months	12 Months
97%	91%	83%	
Operating Temperature Range			
Charge		32°F (0°C) to 104°F (40°C)	
Discharge		5°F (-15°C) to 122°F (50°C)	
Charging Voltage (25°C)			
Cycle Use	14.4-15V(-30mV/°C), Max. Current 22.5A		
Float Use	13.6-13.8V(-20mV/°C)		
Terminal Type			R
Certificate			CE,UR

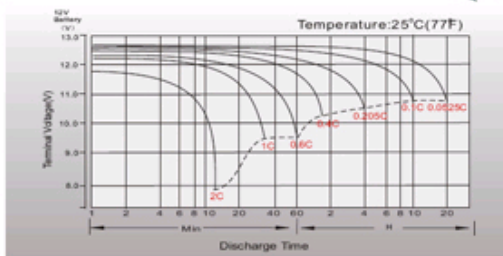
DIMENSIONS

L: 10.2 inch (25.91 cm) W: 6.61 inch (16.79 cm) H: 8.19 inch (20.80 cm)

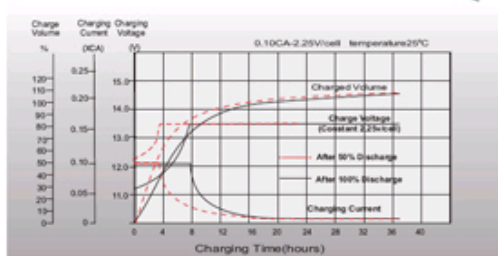
Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in (+/- 2mm) for height dimensions. All data subject to change without notice.



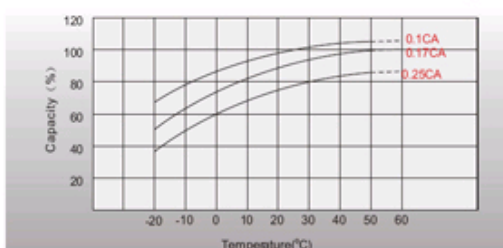
Discharge Characteristics



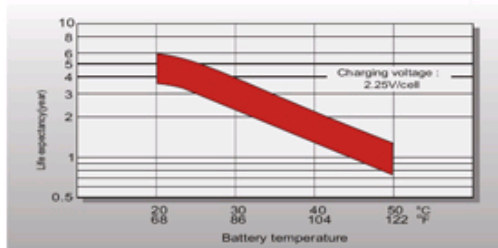
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	128.4	100.9	85.8	71.8	57.1	43.2	35.4	22.5	17.8	14.5	11.7	10.2	8.29	7.08	3.86
1.80V/cell	172.3	128.9	103.7	84.9	67.3	50.2	39.6	24.6	19.2	15.5	12.6	10.9	8.79	7.50	3.90
1.75V/cell	194.3	141.7	113.3	91.3	69.9	52.1	41.4	25.5	19.5	15.9	12.9	11.2	8.94	7.58	3.94
1.70V/cell	213.9	154.4	120.9	95.9	72.7	54.2	42.7	26.5	20.1	16.3	13.2	11.5	9.07	7.65	4.01
1.65V/cell	235.9	166.7	128.6	101.9	76.7	55.6	44.2	27.2	20.9	16.8	13.6	11.7	9.21	7.81	4.07
1.60V/cell	260.2	180.9	137.5	108.6	81.0	57.9	45.8	28.2	21.6	17.4	14.1	12.0	9.30	7.89	4.09

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	234.7	186.4	160.1	135.3	108.7	83.0	68.2	43.7	34.7	28.4	23.0	20.1	16.4	14.0	7.65
1.80V/cell	311.7	235.4	190.9	157.6	126.3	95.8	76.0	47.4	37.1	30.2	24.6	21.4	17.3	14.8	7.71
1.75V/cell	343.9	254.5	205.9	167.9	130.1	98.4	79.1	49.0	37.7	30.8	25.1	22.0	17.6	14.9	7.78
1.70V/cell	368.2	271.1	216.8	175.1	134.6	102.0	81.4	50.8	38.7	31.5	25.7	22.4	17.8	15.1	7.92
1.65V/cell	400.3	289.9	228.8	184.7	140.9	103.6	83.5	52.0	40.1	32.5	26.3	22.8	18.0	15.4	8.02
1.60V/cell	431.3	307.6	240.6	194.6	147.7	107.4	86.0	53.4	41.2	33.4	27.1	23.2	18.2	15.5	8.05

MAINTENANCE & CAUTIONS

Float Service:

- Every month, it is recommended the battery voltage is inspected
- Every three months, it is recommended that an equalization charge is performed

Further Information

Please refer to our website www.amstron.com for a complete documentation, such as product catalogs, material safety data sheets (MSDS), ISO certification, UR certification, etc...

CHARGING

Limit initial current to 22.5A. Charge until battery voltage (under charge) reaches 14.4 to 14.7 volts at 68°F (20°C). Hold at 14.4 to 14.7 volts until current drops to under 750mA. Battery is fully charged under these conditions and charger should be disconnected or switched to "float" voltage.

Contact Information

Amstron Power Solutions
28918 Hancock Parkway Valencia, CA 91355 U.S.A.
Tel: 818-504-1634 Fax: 818-504-1636
Email: sales@amstron.com