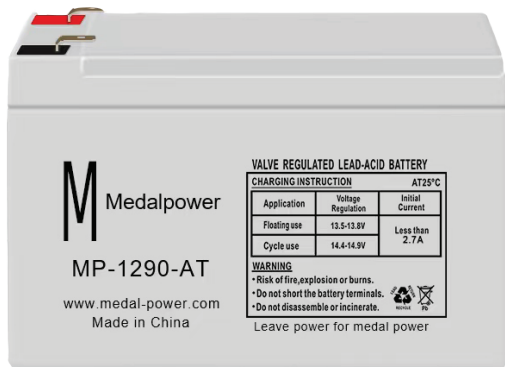


## MP-1290-AT

### Features:

- >> All purpose
- >> Uninterruptable Power Supply (UPS)
- >> Electric Power System (EPS)
- >> Emergency backup power supply
- >> Emergency light
- >> Railway signal
- >> Aircraft signal
- >> Alarm and security system
- >> Electronic apparatus and equipment
- >> Communication power supply
- >> Auto controlsystem



## Technical Specifications

Model	MP-1290-AT	
Nominal Voltage	12V	
Nominal Capacity(20HR)	9AH	
Dimension	Length	151±1mm (5.95 inches)
	Width	65 ± 1mm (3.86 inches)
	Container Height	95 ±1mm (3.74 inches)
	Total Height (with Terminal)	108 ±1mm (4.25 inches)
Approx. Weight	Approx 2.35kg (5.19lbs)	
Terminal	T1/T2	
Container Material	ABS	
Rated Capacity	9.0 AH/0.50A	(20hr ,1.80V/cell,25°C/77°F)
	8.0 AH/9.3A	(10hr,1.80V/cell,25°C/77°F)
	7.5 AH/1.7A	(5hr,1.75V/cell,25°C/77°F)
	7.2AH/3.1A	(3hr,1.75V/cell,25°C/77°F)
	6.0AH/6.0A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	135A (5s)	
Internal Resistance	Approx 25mΩ	
Operating Temp. Range	Discharge: -15 ~ 50°C (5 ~ 122°F)	
	Charge: 0 ~ 40°C (32 ~ 104°F)	
	Storage: -15 ~ 40°C (5 ~ 104°F)	
Nominal Operating Temp. Range	25 ± 3°C (77± 5°F)	
Cycle Use	Initial Charging Current less than2.7A. Voltage 14.4V~14.9V at 25°C (77°F) Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104 °F)	103%
	25°C (77 °F)	100%
	0°C (32 °F)	86%
Self-Discharge	MEDAL POWER batteries may be stored for up to 6 months at 25C (77F) and battery should be recharge before use. for higher temperatures the time interval will be shorter.	

LEAVE POWER FOR MEDAL POWER

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

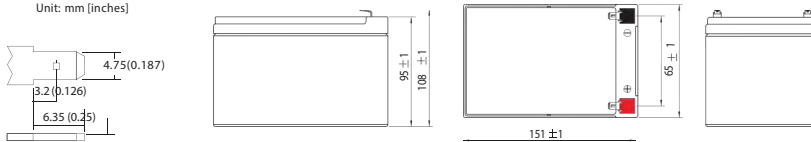
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	22.9	17.5	14.5	12.6	9.72	7.16	6.03	3.57	2.79	2.27	1.85	1.61	1.30	1.08	0.594
1.80V/cell	30.7	22.4	17.6	14.9	11.5	8.33	6.76	3.90	3.00	2.42	1.99	1.72	1.37	1.12	0.600
1.75V/cell	34.6	24.6	19.2	16.0	11.9	8.64	7.07	4.04	3.06	2.48	2.04	1.77	1.40	1.15	0.606
1.70V/cell	38.1	26.9	20.5	16.8	12.4	8.99	7.29	4.14	3.15	2.54	2.09	1.81	1.42	1.17	0.617
1.65V/cell	42.0	29.0	21.8	17.8	13.1	9.21	7.46	4.20	3.28	2.63	2.15	1.85	1.44	1.19	0.625
1.60V/cell	46.3	31.5	23.3	19.0	13.8	9.60	7.54	4.38	3.38	2.71	2.22	1.89	1.45	1.21	0.629

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

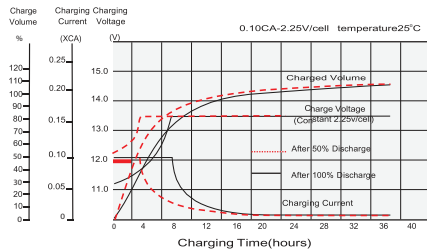
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	41.8	32.4	27.1	23.7	18.5	13.8	11.6	6.93	5.44	4.44	3.63	3.16	2.56	2.14	1.18
1.80V/cell	55.5	40.9	32.3	27.6	21.5	15.9	13.0	7.51	5.82	4.71	3.88	3.37	2.71	2.21	1.19
1.75V/cell	61.2	44.3	34.9	29.4	22.2	16.3	13.5	7.76	5.91	4.80	3.97	3.46	2.75	2.26	1.20
1.70V/cell	65.6	47.1	36.7	30.7	22.9	16.9	13.9	7.94	6.06	4.92	4.06	3.52	2.78	2.31	1.22
1.65V/cell	71.3	50.4	38.7	32.3	24.0	17.2	14.1	8.01	6.29	5.07	4.16	3.59	2.82	2.35	1.23
1.60V/cell	76.8	53.5	40.8	34.1	25.2	17.8	14.2	8.31	6.45	5.21	4.28	3.65	2.84	2.37	1.24

Dimensions

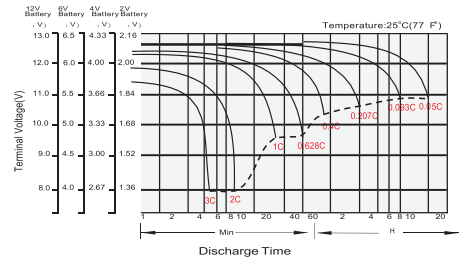
T1 Terminal  
Unit: mm (inches)



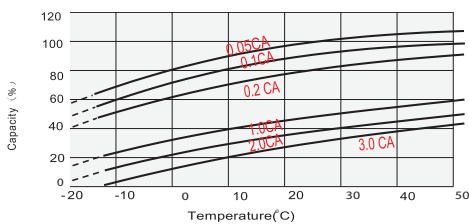
Float Charging Characteristics



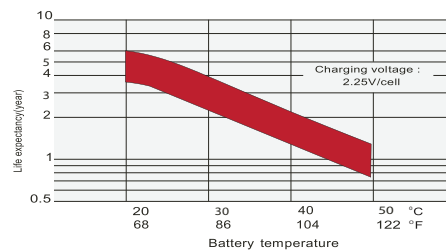
Discharge Characteristics



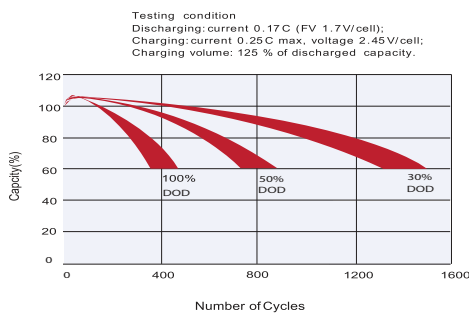
Temperature Effects in Relation to Battery Capacity



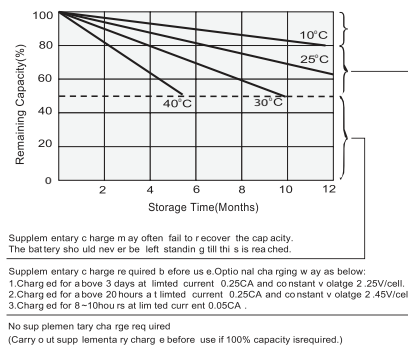
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



LEAVE POWER FOR MEDAL POWER