

ET-1290 (12V 9.0AH)

Valve-regulated Lead Acid Battery Specification

Features

- Maintenance free
- Safety and no leakage
- Excellent recharge and discharge performance
- Low self-discharge rate
- Adapt to high or low temperature
- Good deep discharge performance
- Longer cycle life



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VALVE REGULATED LEAD ACID BATTERY

www.energy-tronic.com

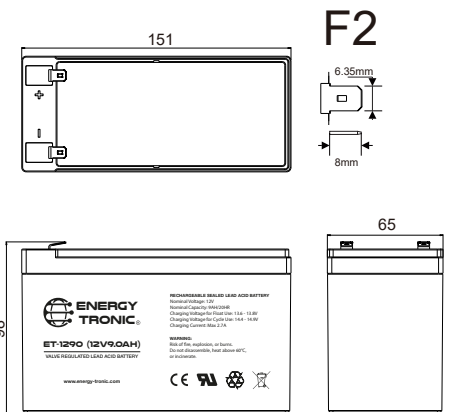
RECHARGEABLE SEALED LEAD ACID BATTERY
Nominal Voltage: 12V
Nominal Capacity: 9AH/20HR
Charging Voltage for Float Use: 13.6 - 13.8V
Charging Voltage for Cycle Use: 14.4 - 14.9V
Charging Current: Max 2.7A

WARNING:
Risk of fire, explosion, or burns.
Do not disassemble, heat above 60°C,
or incinerate.



Specification

Rated Voltage	12V
Numbers of cells	6 Cells
Capacity	9.0Ah@20hr-rate to 1.80V per cell @25°C
Weight	2.7kg
Internal Resistance	Approx. 23 mΩ
Terminal	F2
Max. Discharge Current	135A(5s)
Short Circuit Current	450A
Max. Charging Current	2.7A
Reference Capacity	C20 9.0AH C5 8.3AH C1 5.89AH
Design Life	6~8 years
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -20mV/°C/Cell
Cycle Use Voltage	14.4 V~14.9 V @ 25°C Temperature Compensation: -30mV/°C/Cell
Operating Temperature Range	Discharge: -15°C~50°C Charge: 0°C~40°C Storage: -15°C~40°C
Normal Operating Temperature Range	25°C±5°C
Self Discharge	Less than 3% at 25°C per month
Container Material	A.B.S. UL94-HB, UL94-V0



Length	151±2mm (5.9 inches)
Width	65±1mm (2.6 inches)
Height	94±1mm (3.7 inches)
Total Height	98 ±1mm (3.9 inches)

Constant Current Discharge Characteristics : A(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	25.60	18.70	14.60	12.40	9.56	6.94	5.63	2.50	1.66	0.93	0.450
1.75V/cell	28.80	20.50	16.00	13.30	9.92	7.20	5.89	2.55	1.70	0.96	0.505
1.70V/cell	31.70	22.40	17.10	14.00	10.30	7.49	6.08	2.62	1.74	0.97	0.514
1.65V/cell	35.00	24.20	18.10	14.90	10.90	7.68	6.22	2.73	1.79	0.99	0.521
1.60V/cell	38.60	26.20	19.40	15.80	11.50	8.00	6.28	2.82	1.85	1.01	0.524

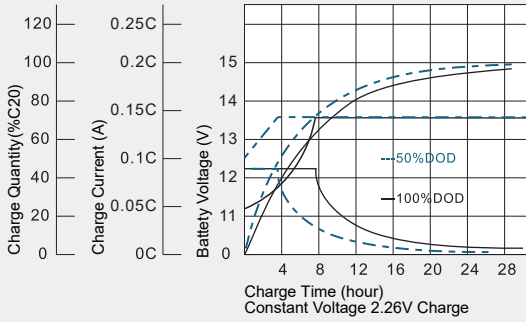
Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	46.20	34.10	26.90	23.00	17.90	13.20	10.80	4.85	3.23	1.84	0.989
1.75V/cell	51.00	36.90	29.10	24.50	18.50	13.60	11.30	4.92	3.31	1.88	0.998
1.70V/cell	54.60	39.30	30.60	25.60	19.10	14.10	11.60	5.05	3.38	1.92	1.015
1.65V/cell	59.40	42.00	32.30	26.90	20.00	14.30	11.80	5.24	3.47	1.96	1.027
1.60V/cell	64.00	44.60	34.00	28.40	21.00	14.80	11.80	5.38	3.57	1.98	1.032

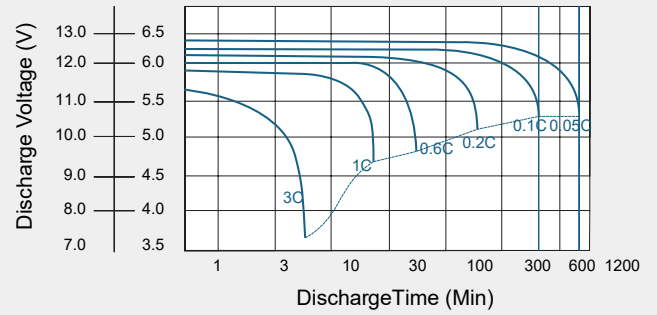
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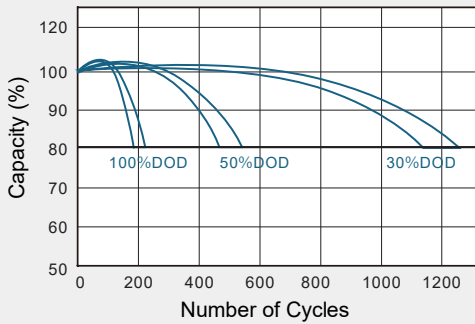
Charge Characteristics for Float Use @ 25°C/77°F



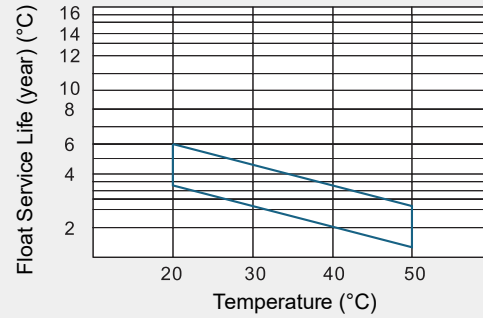
Discharge Characteristics at Various Rates @ 25°C/77°F



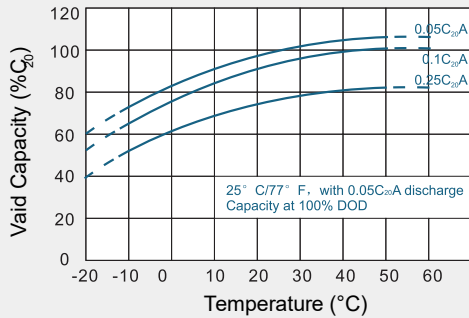
Cycle Life in Relation to Depth of Discharge



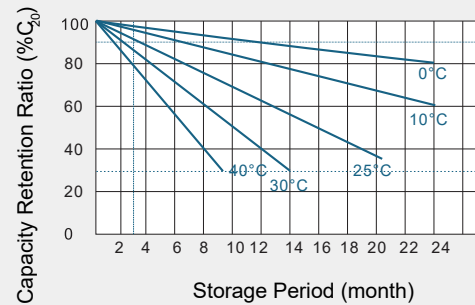
Float Service Life



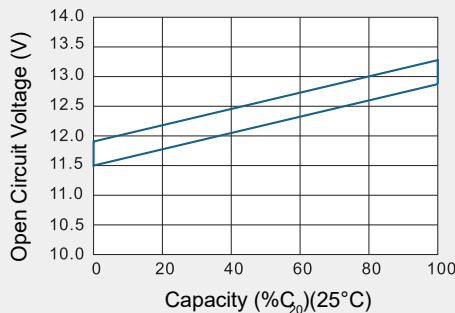
Temperature and Valid Capacity



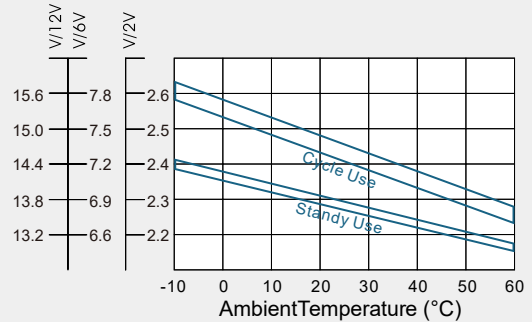
Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature



CN02/0326



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