

ET-1218 (12V 18AH)

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



ENERGY TRONIC ET-1218 (12V18AH)
VALVE REGULATED LEAD ACID BATTERY

RECHARGEABLE SEALED LEAD ACID BATTERY
Nominal Voltage: 12V
Nominal Capacity: 18AH/20HR
Charging Voltage for Float Use: 13.6 - 13.8V
Charging Voltage for Cycle Use: 14.4 - 14.9V
Charging Current: Max 5.4A

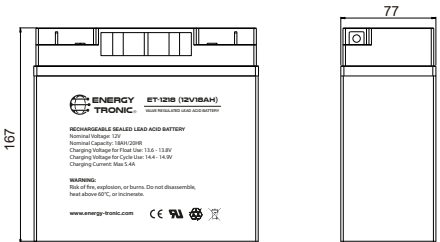
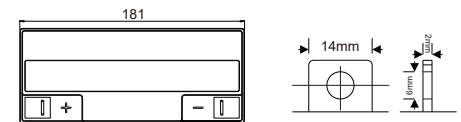
WARNING:
Risk of fire, explosion, or burns. Do not disassemble,
heat above 60°C, or incinerate.

www.energy-tronic.com



Specification

Rated Voltage	12V
Numbers of cells	6 Cells
Capacity	18Ah@20hr-rate to 1.80V per cell @25°C
Weight	5.3kg
Internal Resistance	Approx. 17 mΩ
Terminal	F3 / F4
Max. Discharge Current	270A(5s)
Short Circuit Current	900A
Max. Charging Current	5.4A
Reference Capacity	C20 18AH C5 14.9AH C1 10.6AH
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	181±2mm (7.1 inches)
Width	77±1mm (3.0 inches)
Height	167±1mm (6.6 inches)
Total Height	167 ±1mm (6.6 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	46.00	33.60	26.30	22.30	17.20	12.50	10.10	4.51	2.98	1.67	0.90
1.75V/cell	51.90	37.00	28.80	24.00	17.90	13.00	10.60	4.59	3.06	1.72	0.91
1.70V/cell	57.10	40.30	30.70	25.20	18.60	13.50	10.90	4.72	3.14	1.75	0.93
1.65V/cell	63.00	43.50	32.70	26.80	19.60	13.80	11.20	4.92	3.22	1.79	0.94
1.60V/cell	69.50	47.20	34.90	28.50	20.70	14.40	11.30	5.07	3.33	1.81	0.95

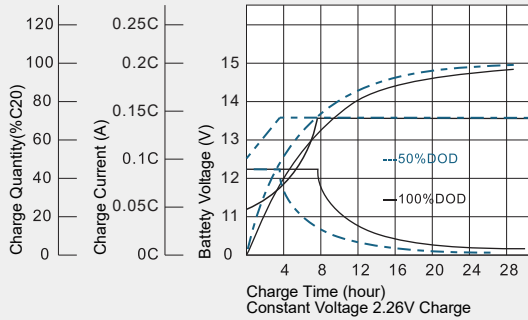
Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	83.20	61.40	48.50	41.40	32.30	23.80	19.50	8.74	5.82	3.31	1.78
1.75V/cell	91.80	66.40	52.30	44.10	33.20	24.50	20.30	8.86	5.95	3.39	1.80
1.70V/cell	98.30	70.70	55.10	46.00	34.40	25.40	20.80	9.09	6.09	3.46	1.83
1.65V/cell	106.90	75.60	58.10	48.50	36.00	25.80	21.20	9.44	6.24	3.52	1.85
1.60V/cell	115.20	80.20	61.10	51.10	37.70	26.70	21.30	9.68	6.42	3.56	1.86

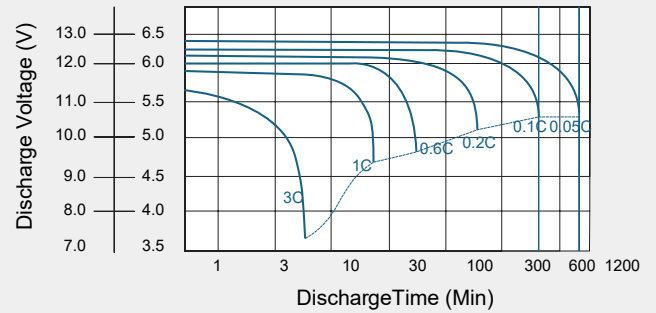
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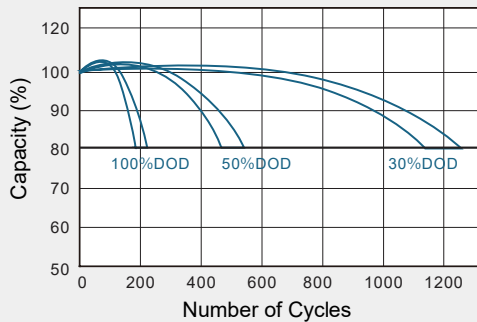
Charge Characteristics for Float Use @ 25°C/77°F



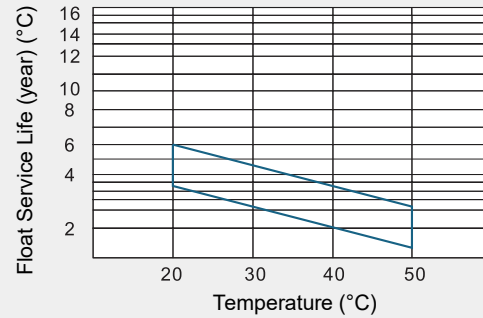
Discharge Characteristics at Various Rates @ 25°C/77°F



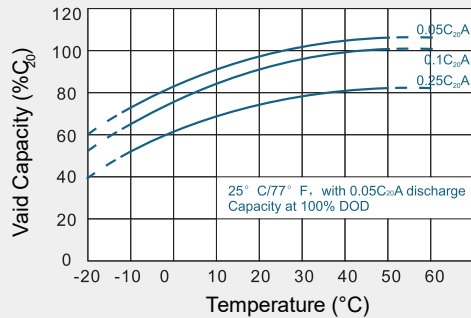
Cycle Life in Relation to Depth of Discharge



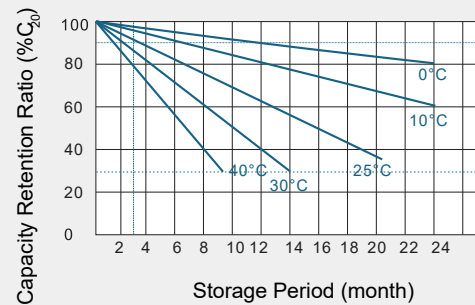
Float Service Life



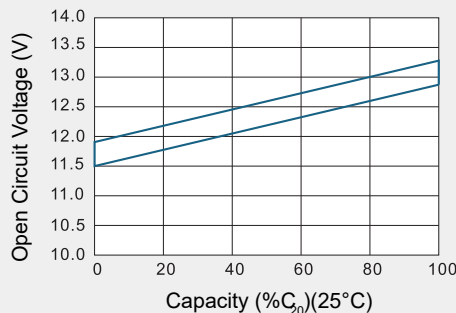
Temperature and Valid Capacity



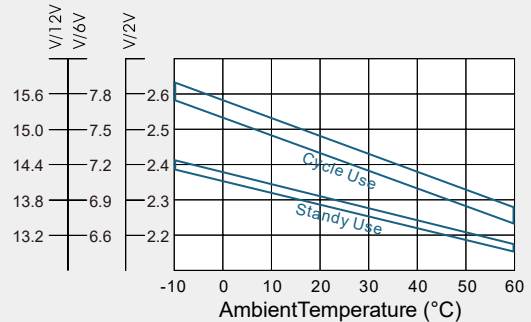
Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature



CN02/0326

