

HR1276W (12V76 Watts/cell)

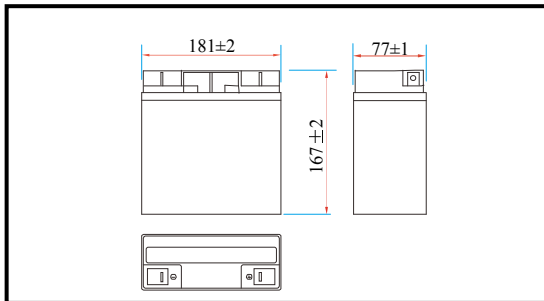
Valve Regulated Lead Acid Battery



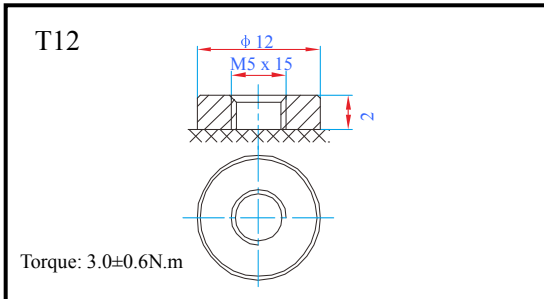
Specifications

Nominal voltage	12V (6 cells per unit)	
Rated capacity (15min. rate)	76 Watts/cell /1.67V	
Dimensions	Length	181±2mm (7.13inch)
	Width	77±1mm (3.03inch)
	Height	167±2mm (6.57inch)
	Total height	167±2mm (6.57inch)
Approx. weight	5.80kg (12.79lbs)±3%	

Outer dimensions (mm)



Terminal type (mm)



Characteristics

Capacity (25°C)	15min. rate	76 Watts/cell /1.67V
	20HR	18Ah/10.5V
Terminal type		T12
Internal resistance (Fully charged, 25°C)		Approx. 12mΩ
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 months	Remaining capacity: 91%
	6 months	Remaining capacity: 82%
	12 months	Remaining capacity: 65%
Nominal operating temperature		25°C±3°C (77°F±5°F)
Operating temperature range	Discharge	-15°C~50°C (5°F ~ 122°F)
	Charge	-10°C~50°C (14°F ~ 122°F)
	Storage	-20°C~50°C (-4°F ~ 122°F)
Float charging voltage (25°C)		13.60 to 13.80V Temperature compensation: -18mV/°C/Block
Cyclic charging voltage (25°C)		14.50 to 15.00V Temperature compensation: -30mV/°C/Block
Maximum charging current		6.08A
Maximum discharge current		270A (5 sec.)
Design life	5 years for floating (25°C)	
	Eurobat (20°C): 3-5 years, standard commercial	

Construction

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

Constant current discharge characteristics unit: Ampere/cell (at 25°C, 77°F)

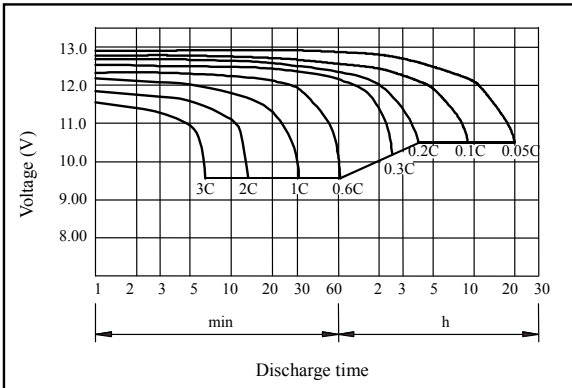
F.V/Time	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	86.73	53.45	40.00	31.60	21.40	15.90	13.00	7.35	5.22	4.20	3.61
1.67V/cell	82.85	51.03	38.60	30.40	20.70	15.40	12.70	7.28	5.18	4.17	3.58
1.70V/cell	80.64	49.67	37.60	29.70	20.40	15.10	12.50	7.24	5.16	4.15	3.56
1.75V/cell	77.18	47.57	36.30	28.70	19.90	14.70	12.20	7.13	5.12	4.12	3.54
1.80V/cell	72.87	44.84	34.40	27.20	19.10	14.20	11.80	6.95	4.97	4.00	3.43

Constant power discharge characteristics unit: Watt/cell (at 25°C, 77°F)

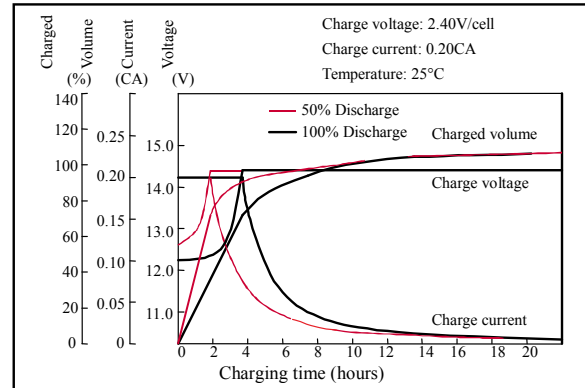
F.V/Time	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	162.98	98.70	79.10	62.60	42.40	31.40	25.70	14.60	10.50	8.45	7.26
1.67V/cell	154.78	94.30	76.40	60.10	41.10	30.40	25.10	14.50	10.40	8.37	7.19
1.70V/cell	151.70	91.80	74.40	58.90	40.30	29.80	24.70	14.40	10.40	8.34	7.17
1.75V/cell	144.53	87.90	71.80	56.80	39.30	29.10	24.20	14.20	10.30	8.28	7.12
1.80V/cell	136.33	82.90	68.10	53.80	37.90	28.00	23.40	13.80	9.98	8.03	6.90

Note 1: Above characteristics data can be obtained within three charge and discharge cycles.

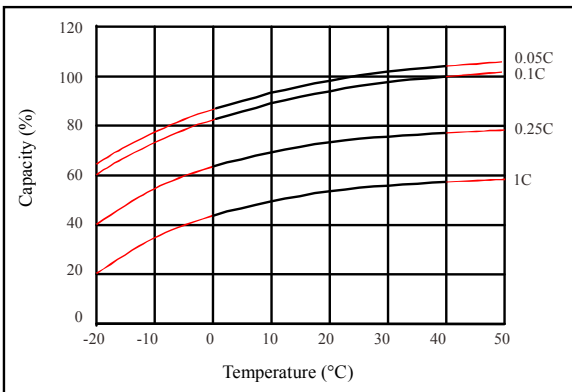
● Discharge characteristics (25°C)



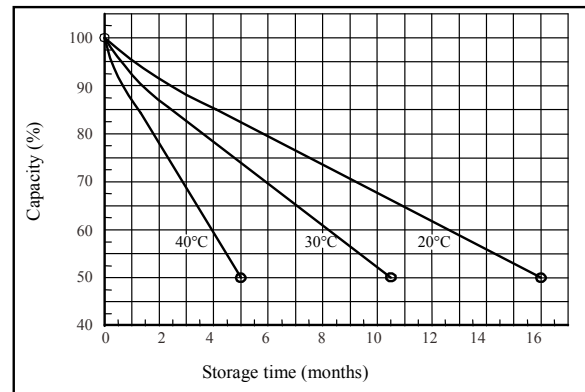
● Charging characteristics (25°C)



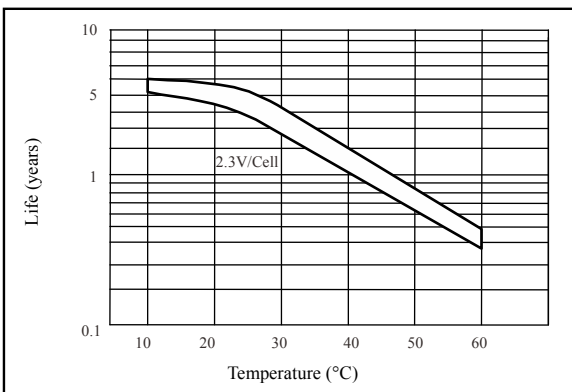
● Temperature effects on capacity



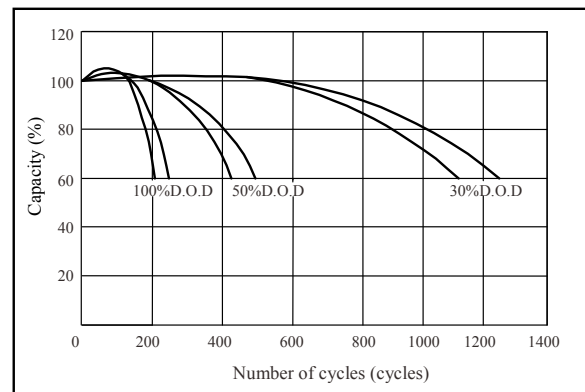
● Self-discharge characteristics



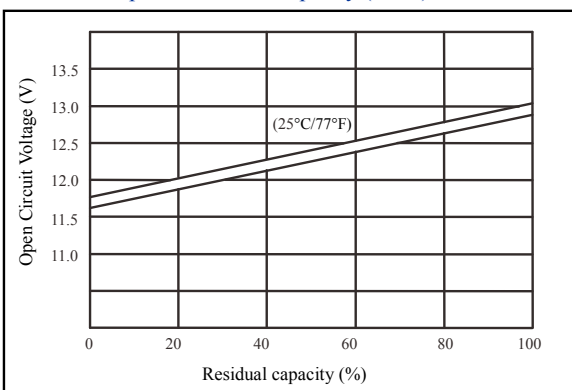
● Floating life on temperature



● Cycle life on D.O.D (25°C)



● Relationship for OCV and capacity (25°C)



● Relationship for charging voltage and temperature

