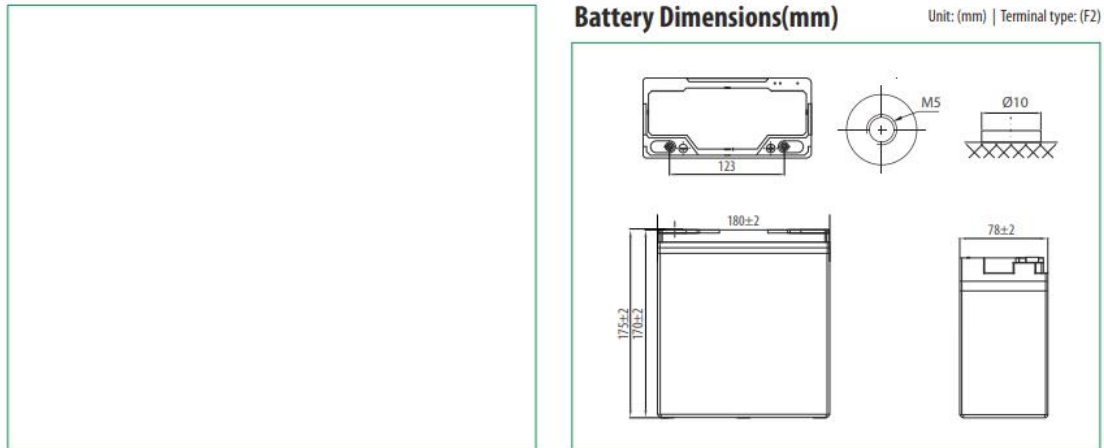




12v 28Ah

VALVE REGULATED LEAD ACID BATTERY - MINI CAPACITY SERIES



Product Applications



Product Features mm(inch)

Deep Cycle High Power Series 400-500 Cycles @ 100% DOD.			
↑20% Cycle Life <small>Three advanced material</small>	Carbon Fiber	Graphene	Rare-earth alloy
	↑10% Energy Density <small>Excellent negative pasting formula</small>	↓50% Grid Corrosion <small>Rare earth patent allow</small>	0% Acid stratification

Physical Specification :

Model	Dimensions (mm/Inch)				Weight (Kg/lbs)	Terminal	Container
	Length	Width	Height	Total Height			
EV27-12	180	78	170	175/6.89	7Kgs	I10	ABS UL94-HB (Optional ABS UL 94-V0)

Product Specification :

Nominal Voltage	Reted Capacity 25° C/77C	Operating Temp.Range	Capacity Effected Temp	Capacity vs Storage Time
12V	Ah 20hr Rate (1.80V/cell) 25 Ah 10hr Rate (1.75V/cell) 23.5 Ah 5hr Rate (1.75V/cell) 22.3 Ah 2hr Rate (1.75V/cell)	Discharge:- 15~50C (5~122F) Charge: 0~40C (32~104F) Storage: 15~40C (5~104F) Optimum: 25 -3C (77-5F)	40C (104F): 106% 25C (77F): 100% 0C(32F): 90% -15C (5F): 76%	Three months: 90% Six Months: 80% Nine months: 60%



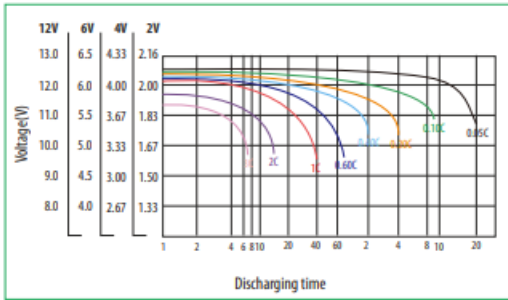
12v 28Ah

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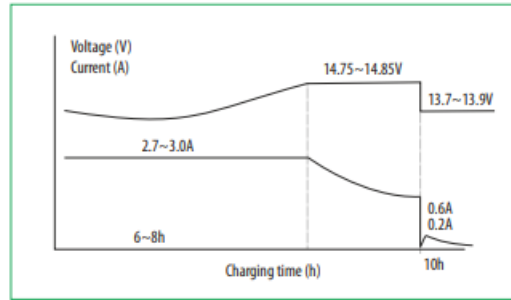
VALVE REGULATED LEAD ACID BATTERY - MINI CAPACITY SERIES

Electrical Characteristics:

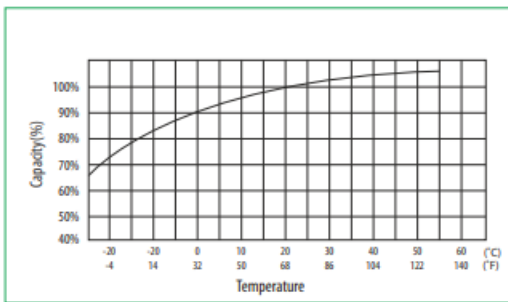
Discharging Characteristics@ 25°C (77°F)



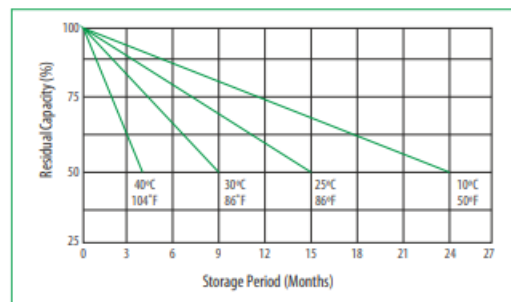
Charging Characteristics@25°C (77°F)



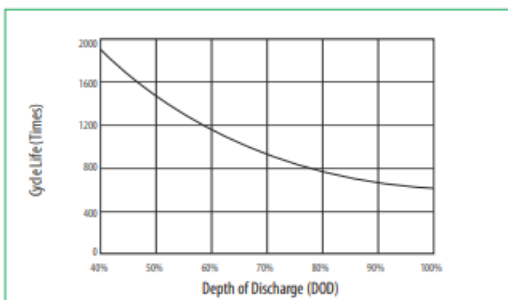
Capacity Vs Temperature



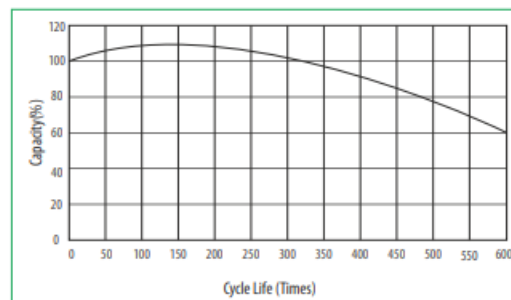
Self-Discharge Vs Time



Capacity Life Depth of Discharge@ 25°C (77°F)



Capacity Life Remaining Capacity@ 25°C (77°F)





12v 28Ah

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VALVE REGULATED LEAD ACID BATTERY - MINI CAPACITY SERIES

Constant Current Discharge (A)25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/Cell	30.4	21.7	17.2	10.1	6.95	5.25	4.25	3.67	2.90	2.39	1.31
1.80V/Cell	31.4	22.3	17.7	10.5	7.10	5.42	4.42	3.81	2.98	2.45	1.35
1.75V/cell	32.3	23.2	18.4	11.2	7.49	5.67	4.70	4.00	3.07	2.50	1.38
1.70v/Cell	33.2	23.8	19.0	11.3	7.64	5.81	4.74	4.08	3.14	2.57	1.41
1.68V/cell	33.9	24.6	19.7	11.5	7.75	5.95	4.88	4.16	3.21	2.61	1.42
1.61V/cell	34.8	25.2	20.1	11.8	8.02	6.12	4.95	4.27	3.29	2.70	1.43

Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	59.4	42.7	34.2	20.2	13.9	10.6	8.58	7.42	5.87	4.85	2.66
1.80V/cell	61.1	43.7	34.9	20.8	14.2	10.9	8.88	7.67	6.01	4.96	2.74
1.75V/cell	62.7	45.3	36.1	22.1	14.9	11.3	9.40	8.01	6.16	5.04	2.78
170V/cell	63.9	46.1	37.1	22.3	15.1	11.5	9.43	8.12	6.28	5.14	2.83
1.68V/cell	64.8	47.3	38.2	22.4	15.2	11.7	9.64	8.24	6.36	5.19	2.84
160V/cell	66.0	48.2	38.6	23.0	15.6	12.0	9.70	8.38	6.48	5.32	2.85

Usage and Maintenance

Limited Current	Limited Voltage	Limited Voltage
Limited current: $\leq 0.2C2A$	14.75~14.85V@25°C(77°F) Temp. Coefficient:-24mV/°C	13.7~13.9V@25°C(77°F) Temp. Coefficient:-18mV/°C