

ELC12-28 (12V 28Ah)

Specifications

Nominal Voltage	12V	
Nominal Capacity(20 Hr)	28Ah	
Dimension	Length	166±1mm(6.54 inches)
	Width	175±1mm(6.89 inches)
	Containeriner Height	126±1mm(4.96 inches)
	Total Height	126±1mm(4.96 inches)
Approx Weight	Approx8.3kgs(18.30 lbs)	
Design life	10 years	
Terminal	M6	
Container Material	ABS	
Rated Capacity	28.00Ah/1.40A	(20hr, 1.80V/Cell, 25 °C/77°F)
	26.18Ah/2.62A	(10hr, 1.80V/Cell, 25 °C/77°F)
	23.00Ah/4.60A	(5hr, 1.75V/Cell, 25 °C/77°F)
	16.60Ah/16.60A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	280A(5s)	
Internal Resistance	Appro≤12.5mΩ	
Operating Temp. Range	Discharge: -20 °C~50 °C	
	Charge: -20 °C~50 °C	
	Storage: -20 °C~50 °C	
Nominal Operating Temp. Range	25±3 °C(77±5°F)	
Cycle Use	Initial Charging Current Less than 6.5A. Voltage	
	14.4V-15.0V at 25 °C(77°F) Temp. Coefficient-	
Standby Use	No limit on Intital 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%
	ELC series batteries may be stored for up to 6 months	
Self Discharge	at25 °C(77°F) and then a freshening charge is	
	required. For higher temperatures the time interval	
	will be shorter.	



Application

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

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

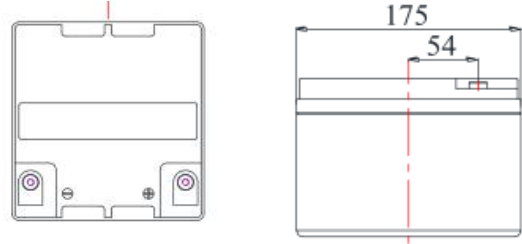
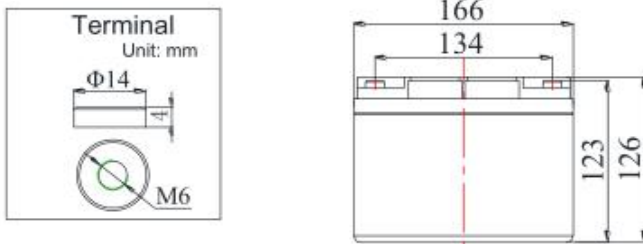
F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	46.9	27.6	20.9	16.6	9.8	7.2	4.8	4.2	3.3	2.7	1.44
1.67V	44.3	26.2	20.1	16.1	9.4	6.9	4.8	4.1	3.3	2.7	1.43
1.70V	41.6	25.4	19.4	15.5	9.2	6.8	4.7	4.1	3.2	2.7	1.41
1.75V	39.0	24.3	18.5	14.8	8.9	6.6	4.6	4.0	3.2	2.6	1.39
1.80V	36.6	23.4	17.9	14.3	8.6	6.4	4.5	3.9	3.1	2.6	1.38

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

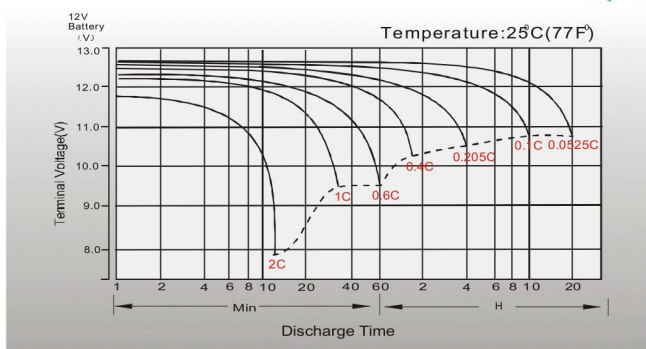
F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	89.7	54.9	39.8	31.8	18.5	13.7	9.3	8.1	6.4	5.3	2.8
1.67V	85.9	51.5	38.4	31.0	18.0	13.3	9.2	8.0	6.4	5.3	2.8
1.70V	80.0	50.3	37.2	29.9	17.6	13.0	9.0	7.9	6.3	5.2	2.8
1.75V	75.1	47.9	35.7	28.8	17.2	12.8	8.9	7.8	6.2	5.2	2.8
1.80V	70.5	46.0	34.5	27.9	16.6	12.4	8.7	7.6	6.2	5.1	2.7

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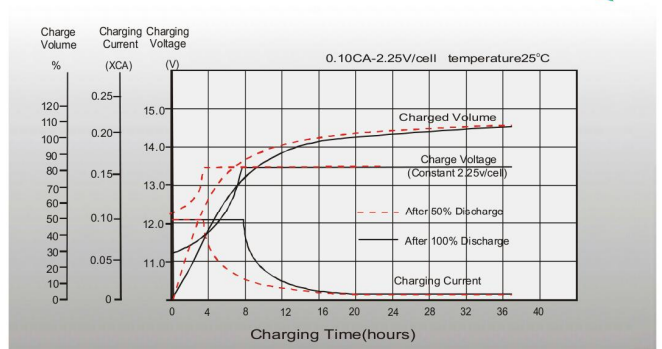
Dimensions



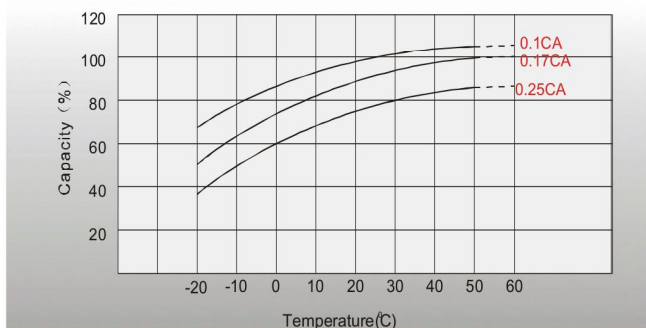
Discharge Characteristics



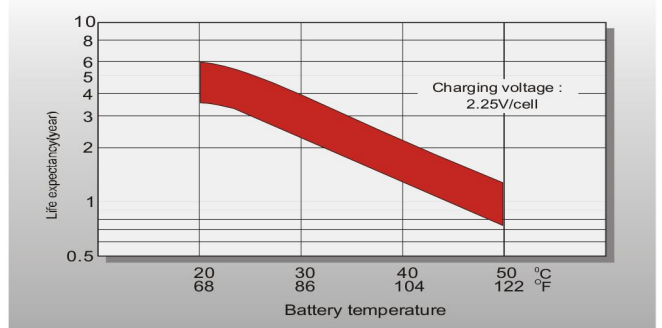
Float Charging Characteristics



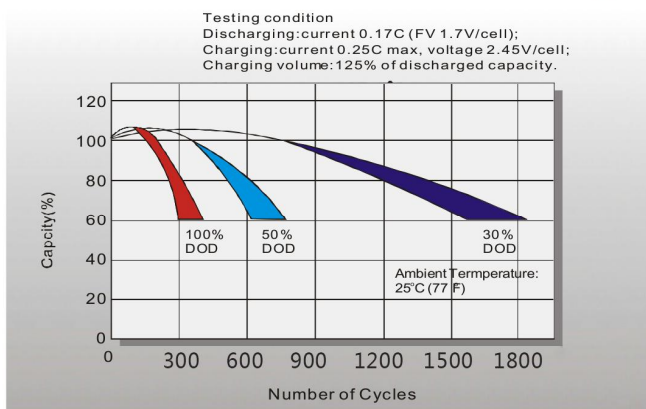
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle life in Relation to Depth of Discharge



Self-discharge Characteristics

