ELITE POWER

Valve Regulated Lead Acid Battery

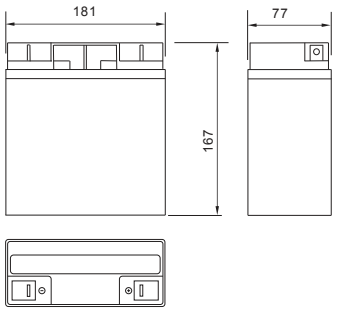
EPA12-22 12V22Ah



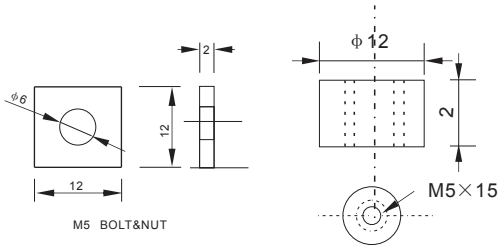
Specifications

Nominal Voltage		12V
Rated capacity (20 hour rate)		22Ah
Dimensions	Length	181±2mm(7.13inch)
	Width	77±1mm(3.03inch)
	Height	167±2mm(6.57inch)
	Total Height	167±2mm(6.57inch)
Approx. Weight		6.1kg(13.4lbs)±4%

Outer dimensions (mm)



Terminal Type (mm)



Characteristics

Capacity (25℃)	20HR(10.5V)	22Ah
	10HR(10.5V)	20Ah
	1HR(9.60V)	13.2Ah
Terminal type		T3/T12
Internal resistance (Fully charged,25℃)		Approx.12m Ω
Capacity affected by temperature (20HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3month	Remaining Capacity:91%
	6month	Remaining Capacity:82%
	12month	Remaining Capacity:65%
Nominal operating temperature		25℃±3℃(77℉±5℉)
Operating temperature range	Discharge	-15℃~50℃(5℉~122℉)
	Charge	-10℃~50℃(14℉~122℉)
	Storage	-20℃~50℃(-4℉~122℉)
Float charging voltage(25℃)		13.50 to 13.80V Temperature compensation: -18mV/℃
Cyclic charging voltage(25℃)		14.50 to 15.00V Temperature compensation: -30mV/℃
Maximum charging current		6.6A
Maximum discharge current		300A(5 sec.)
Designed floating life(20℃)		5 years

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:A(25℃,77℉)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	80.7	51.1	39.9	22.5	13.8	7.88	5.45	4.51	3.84	2.08	1.12
9.90V	78.3	49.6	39.0	22.0	13.6	7.84	5.42	4.48	3.81	2.08	1.11
10.2V	75.0	47.5	37.5	21.4	13.3	7.77	5.38	4.45	3.79	2.06	1.11
10.5V	71.8	45.5	36.2	20.9	13.0	7.65	5.35	4.42	3.76	2.05	1.10
10.8V	67.8	42.9	34.3	20.1	12.6	7.46	5.19	4.29	3.65	2.01	1.08

Constant Power Discharge Characteristics Unit:W(25℃,77℉)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	900	577	455	258	160	92.2	64.8	53.7	45.8	25.0	13.4
9.90V	873	559	444	253	158	91.7	64.4	53.4	45.5	24.9	13.3
10.2V	837	536	428	245	154	90.9	64.0	53.0	45.2	24.8	13.3
10.5V	801	513	413	239	151	89.5	63.5	52.7	44.9	24.6	13.2
10.8V	756	484	391	230	146	87.2	61.60	51.1	43.6	24.1	12.9

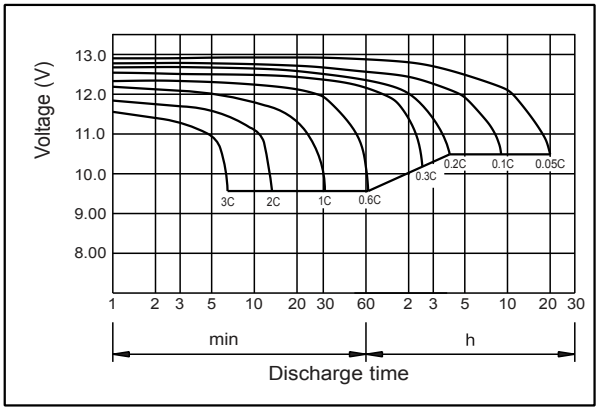
Note: The above characteristics data can be obtained within three charge or discharge cycles.

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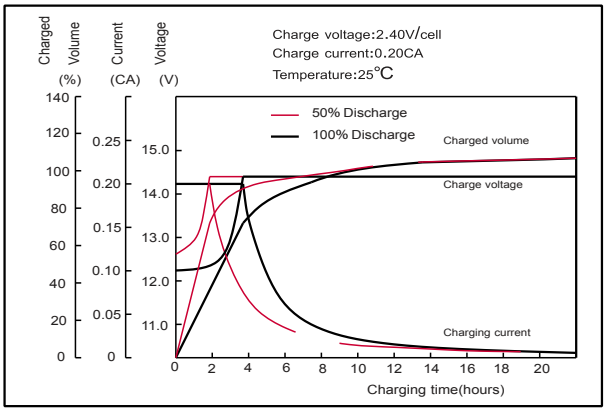
Valve Regulated Lead Acid Battery

EPA12-22 12V22Ah

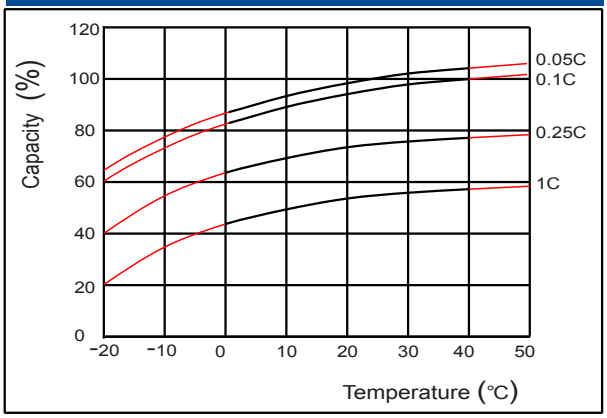
Discharge Characteristics 25℃



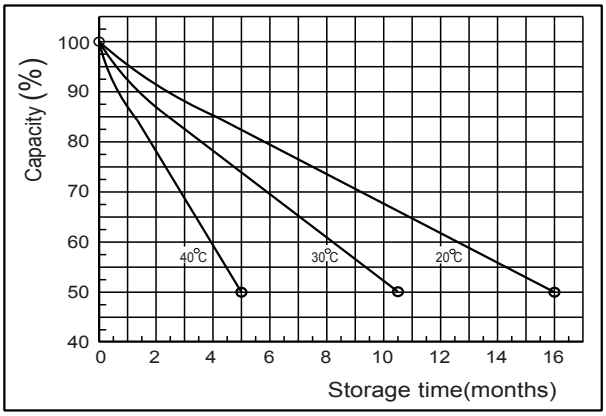
Charging Characteristics 25℃



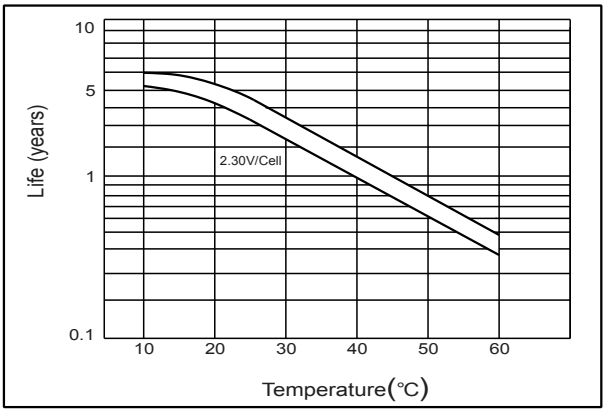
Effect of temperature on capacity



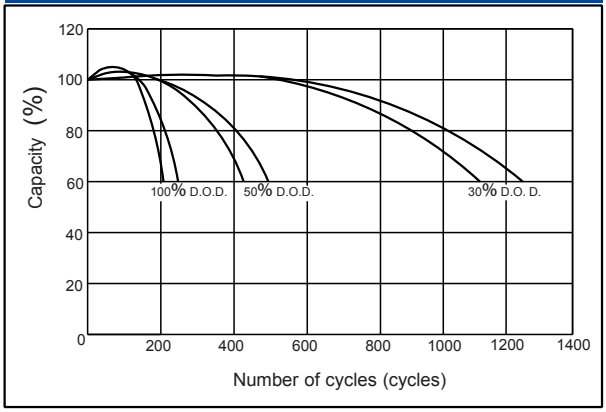
Self-discharge c haracteristics



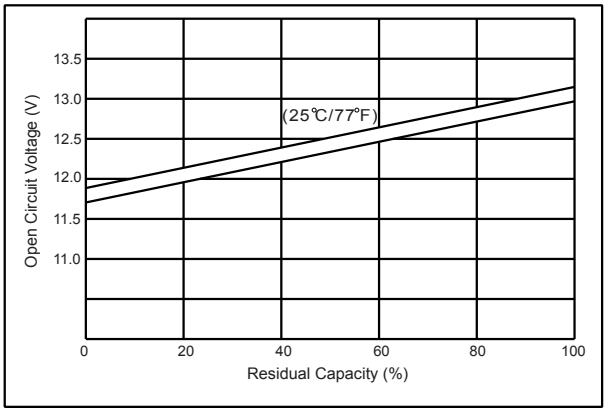
Floating life on temperature



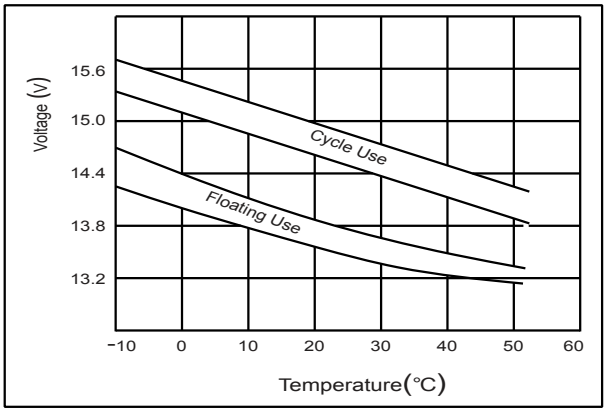
Cycle life on D.O.D(25℃



The relationship for OCV and Capacity (25℃



The relationship for Charging voltage and Temperature



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