

ET12-18 (12V 18AH)

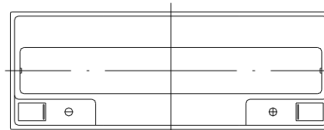
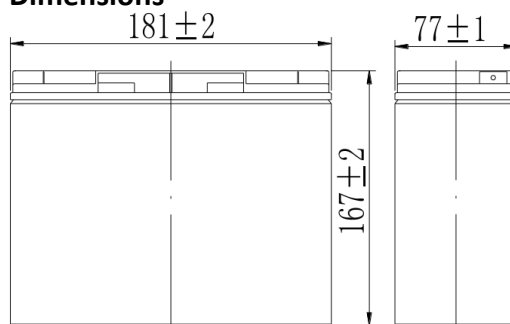


Specifications

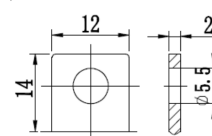
Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	18 Ah
	10HR(10.5V)	16.9 Ah
	1HR(9.60V)	11.7 Ah
Dimension	Length	181±2mm
	Width	77±2mm
	Height	167±2mm
Total Height		167±2mm
Approx. Weight		5.1kg ±5%
Terminal type		F17
Internal resistance (Fully charged, 25°C)		Approx. 18mΩ
Capacity affected by temperature (20HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25°C±3°C
Operating temperature range	Discharge	-15°C~50°C
	Charge	-10°C~50°C
	Storage	-20°C~50°C
Float charging voltage(25°C)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 15.00V Temperature compensation: -30mV/°C
Maximum charging current		5.4A
Maximum discharge current		270A(5 sec.)
Designed floating life(20°C)		5 years



Dimensions



Terminal



F17

Constant Current Discharge Characteristics (Ampere @ 25°C)

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	43.5	34.0	19.2	11.8	6.45	4.46	3.70	3.14	2.03	1.70	0.91
9.90V	42.2	33.2	18.7	11.8	6.42	4.44	3.66	3.12	2.02	1.69	0.91
10.2V	40.6	32.0	18.2	11.3	6.35	4.40	3.64	3.10	2.01	1.69	0.91
10.5V	38.7	30.9	17.8	11.1	6.26	4.37	3.62	3.08	2.00	1.68	0.90
10.8V	36.6	29.2	17.1	10.8	6.10	4.25	3.50	2.99	1.94	1.64	0.88

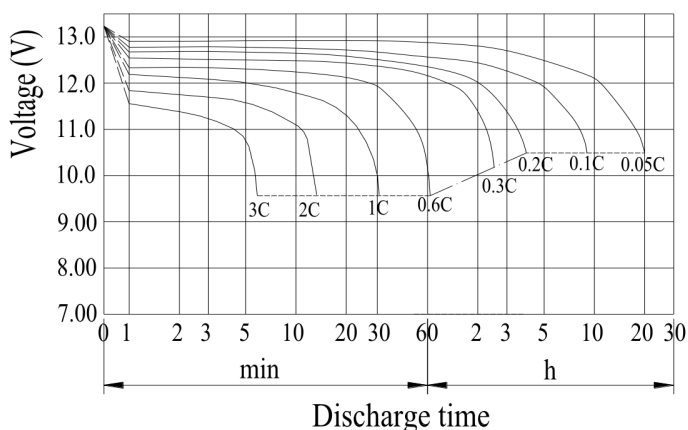
Constant Power Discharge Characteristics (Watt @ 25°C)

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	491	387	219	136	75.5	53.0	43.9	37.4	24.4	21.1	11.0
9.90V	476	378	215	134	75.0	52.7	43.7	37.3	24.3	21.0	10.9
10.2V	457	364	208	131	74.3	52.3	43.4	37.0	24.1	20.2	10.9
10.5V	437	352	203	128	73.3	52.0	43.1	36.7	23.9	20.1	10.8
10.8V	412	333	195	124	71.3	50.4	41.8	35.6	23.3	19.8	10.6

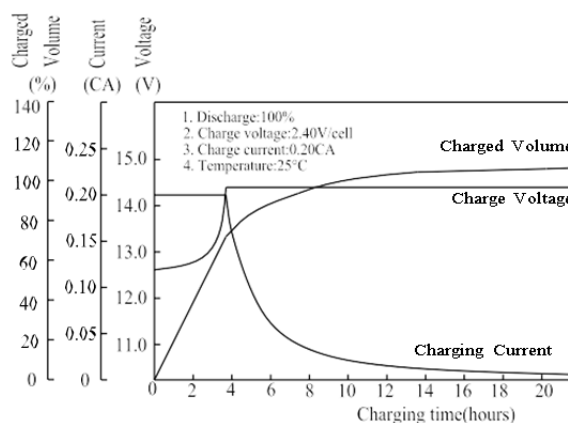
Construction

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

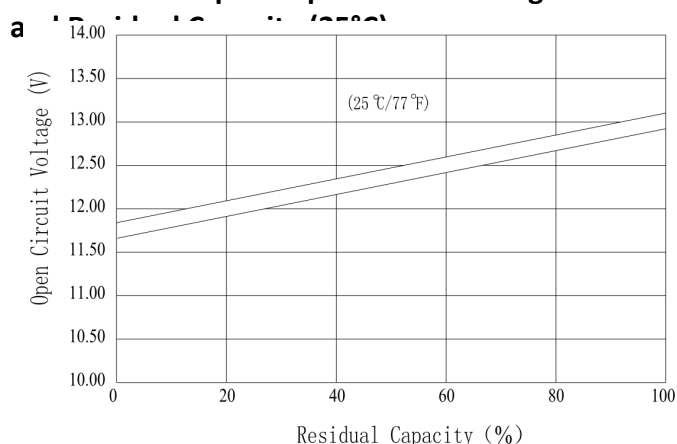
Discharge Characteristics (25°C)



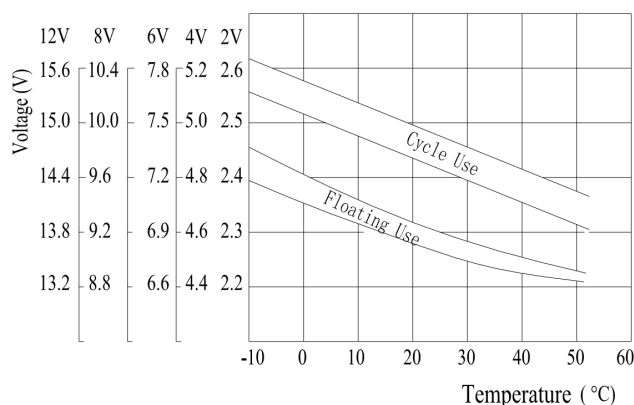
Charging Characteristics (25°C)



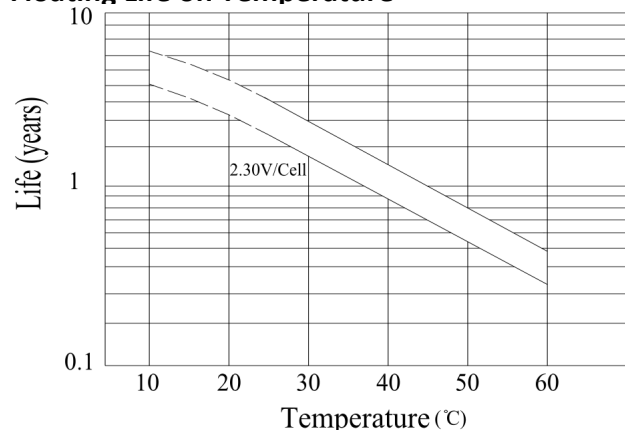
The Relationship for Open Circuit Voltage



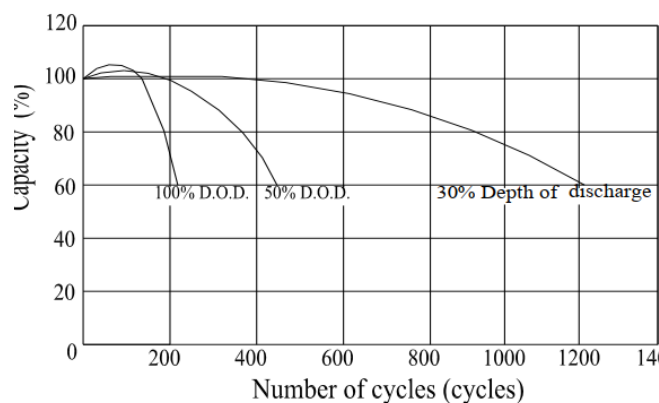
The Relationship for Charging Voltage and Temperature



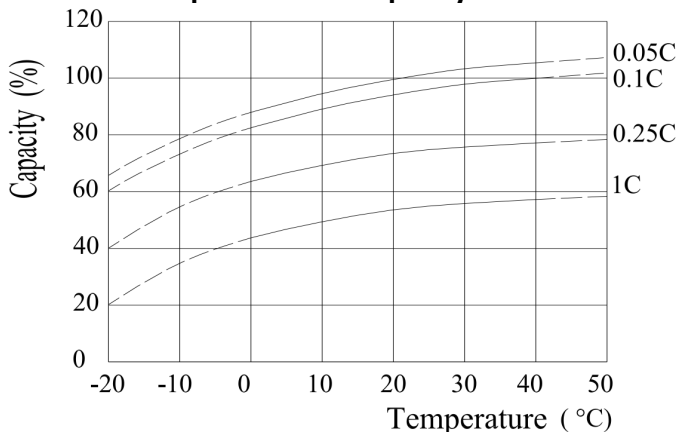
Floating Life on Temperature



Cycle Life on D.O.D (25°C)



Effect of Temperature on Capacity



Self-discharge Characteristics

