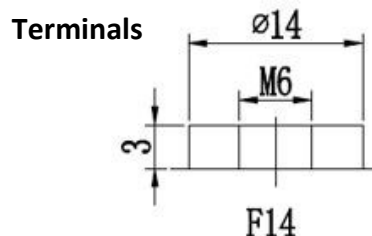
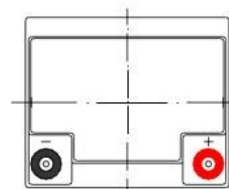
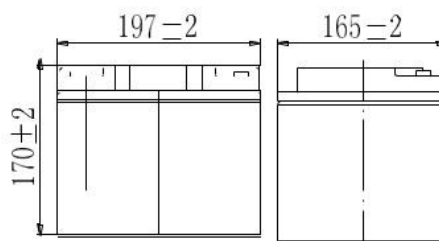


ET12-42 (12V 42AH)



Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	42 Ah
	5HR(10.5V)	35Ah
	1HR(9.60V)	24.5Ah
Dimension	Length	197±2mm (7.76inch)
	Width	165±2mm (6.50inch)
	Height	170±2mm (6.69inch)
	Total Height	170±2mm (6.69inch)
Approx. Weight		12.5kg (27.6lbs)±4%
Terminal type		F14
Internal resistance (Fully charged, 25°C)		Approx. 8.5mΩ
Capacity affected by temperature (10HR)	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(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)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 15.00V Temperature compensation: -30mV/°C
Maximum charging current		12A
Maximum discharge current		400A (5 sec.)
Designed floating life(20°C)		10 years



Constant Current Discharge Characteristics (Ampere @ 25°C)

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	87.2	67.2	40.2	24.7	14.6	10.4	8.40	7.18	4.94	4.07	2.16
9.90V	84.6	65.6	39.4	24.3	14.5	10.3	8.36	7.14	4.91	4.06	2.15
10.2V	81.1	63.2	38.2	23.7	14.4	10.3	8.30	7.09	4.87	4.05	2.15
10.5V	77.6	61.0	37.3	23.2	14.2	10.2	8.24	7.04	4.84	4.03	2.13
10.8V	73.2	57.8	35.9	22.5	13.8	9.89	7.99	6.83	4.69	4.00	2.12

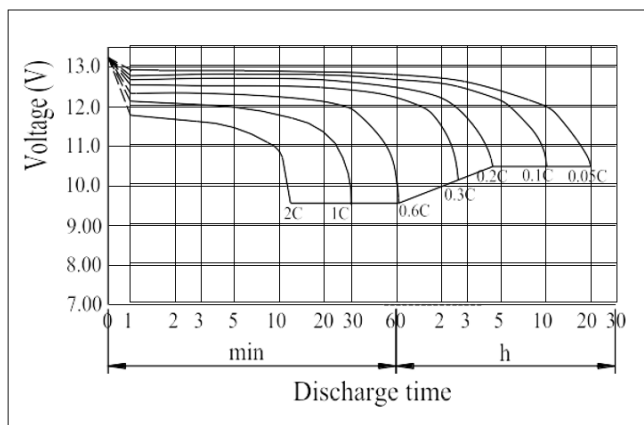
Constant Power Discharge Characteristics (Watt @ 25°C)

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	942	738	451	282	169	122	98.8	84.9	58.6	48.6	25.9
9.90V	914	720	442	278	168	122	98.3	84.4	58.3	48.5	25.8
10.2V	876	694	428	271	167	121	97.6	83.8	57.9	48.4	25.8
10.5V	838	670	418	265	164	120	96.9	83.2	57.5	48.1	25.6
10.8V	791	635	403	257	160	116	94.0	80.7	55.8	47.8	25.4

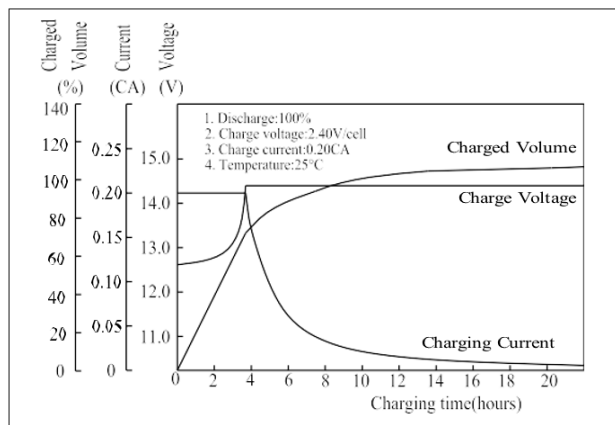
Construction

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

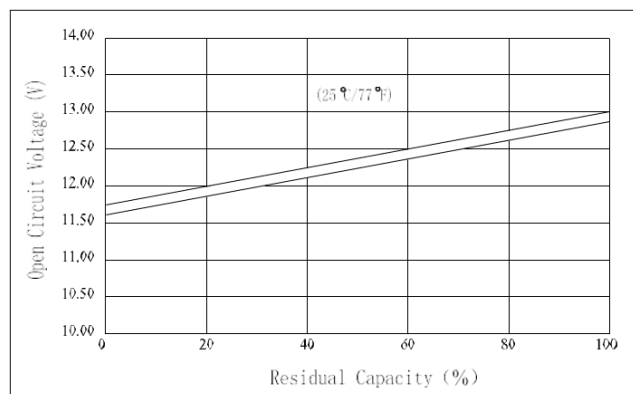
Discharge Characteristics (25°C)



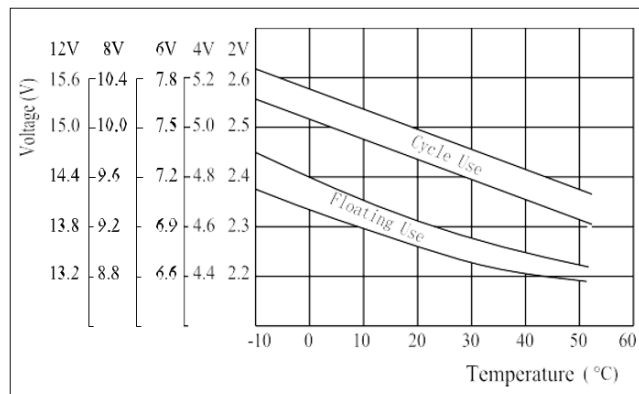
Charging Characteristics (25°C)



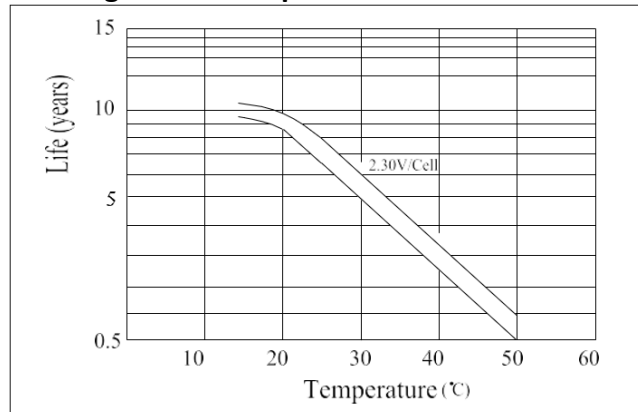
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



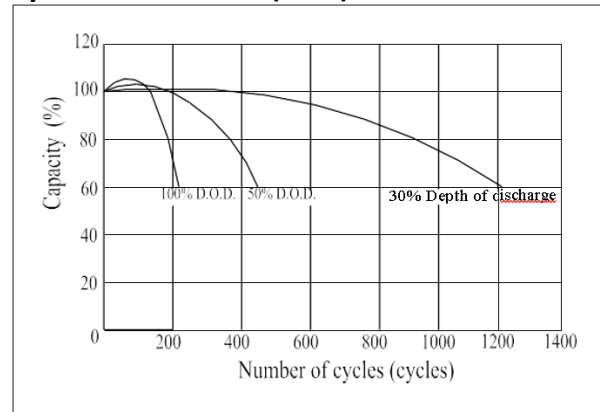
The Relationship for Charging Voltage and



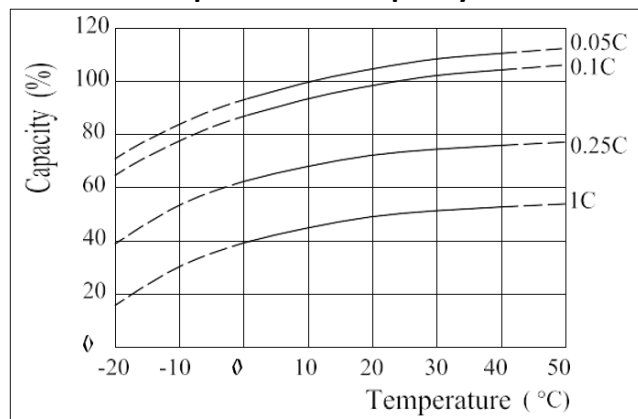
Floating Life on Temperature



Cycle Life on D.O.D (25°C)



Effect of Temperature on Capacity



Self-discharge Characteristics

