ELITE POWER

Valve Regulated Lead Acid Battery

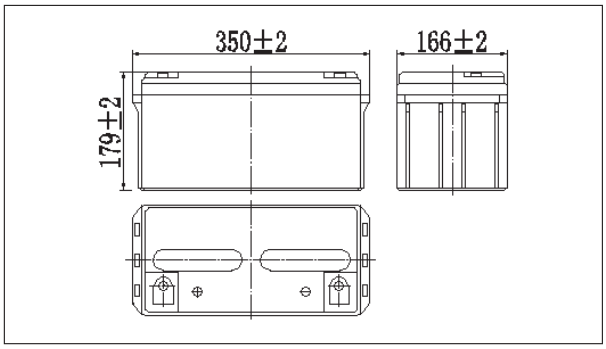
EPA12-65 12V65Ah



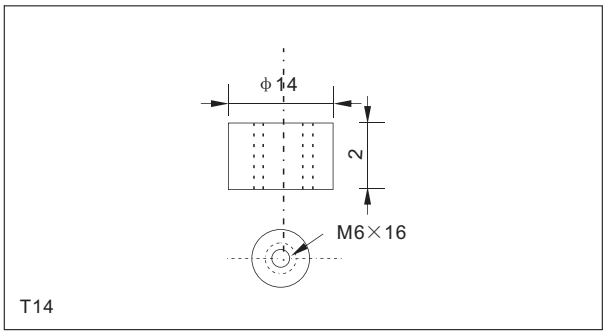
Specifications

Nominal Voltage		12V
Rated capacity (20 hour rate)		65Ah
Dimensions	Length	350±2mm(13.78inch)
	Width	166±2mm(5.54inch)
	Height	179±2mm(7.05inch)
	Total Height	179±2mm(7.05inch)
Approx. Weight		19.3kg(42.55lbs) ±3%

Outer dimensions (mm)



Terminal Type (mm)



Characteristics

Capacity (25℃)	20HR(10.8V)	65Ah
	10HR(10.8V)	62Ah
	1HR(10.5V)	35Ah
Terminal type		T14
Internal resistance (Fully charged,25℃)		Approx.6.5m Ω
Capacity affected by temperature (10HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3 months	Remaining Capacity:91%
	6 months	Remaining Capacity:82%
	12 months	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		19.5A
Maximum discharge current		650A(5 sec.)
Designed floating life(20℃)		10years

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	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	135	104	62.3	38.3	22.7	16.3	13.0	11.1	7.65	6.31	3.35
9.90V	131	102	61.1	37.7	22.5	16.2	13.0	11.1	7.61	6.30	3.34
10.2V	126	97.9	59.2	36.8	22.3	16.1	12.9	11.0	7.55	6.28	3.33
10.5V	120	94.6	57.8	35.6	22.0	16.0	12.8	10.9	7.50	6.24	3.31
10.8V	114	89.6	55.6	34.5	21.4	15.5	12.4	10.6	7.28	6.20	3.29

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

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1460	1144	699	437	262	192	153	132	90.9	75.4	40.1
9.90V	1416	1116	685	430	261	191	152	131	90.4	75.2	40.1
10.2V	1358	1075	664	419	258	189	151	130	89.7	75.0	39.9
10.5V	1299	1038	648	406	255	188	150	129	89.1	74.5	39.7
10.8V	1226	984	624	393	248	182	146	125	86.5	74.0	39.4

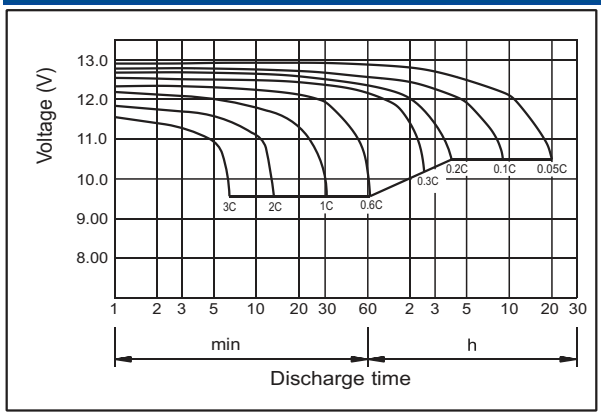
Note: The above characteristics data can be obtained within three charge or discharge cycles.

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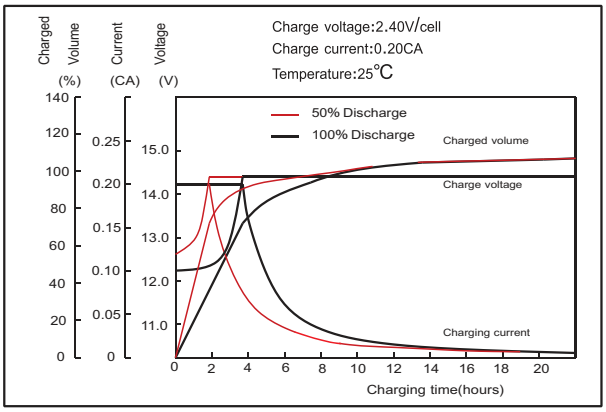
Valve Regulated Lead Acid Battery

EPA12-65 12V65Ah

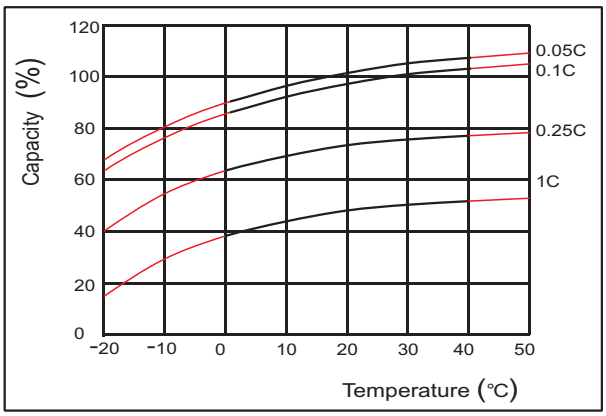
Discharge Characteristics 25℃



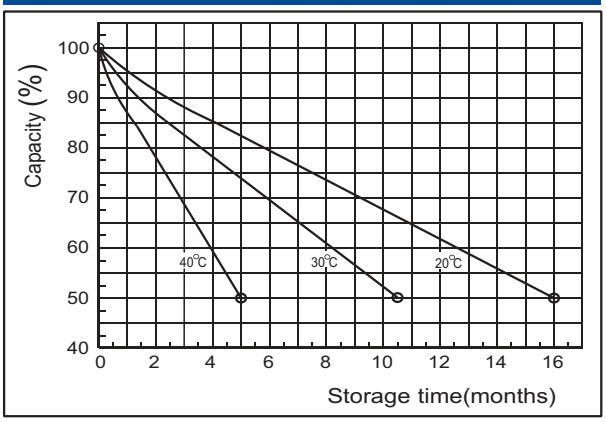
Charging Characteristics 25℃



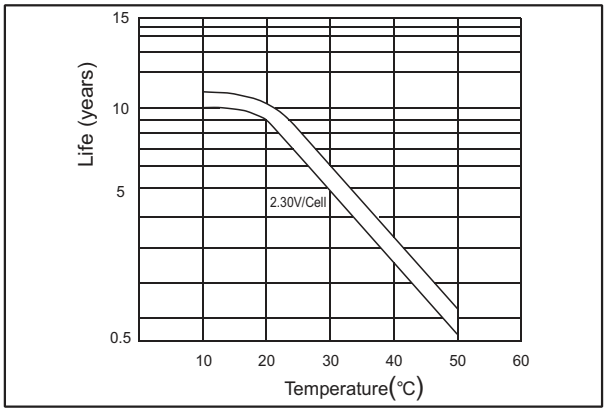
Temperature Effects on Capacity



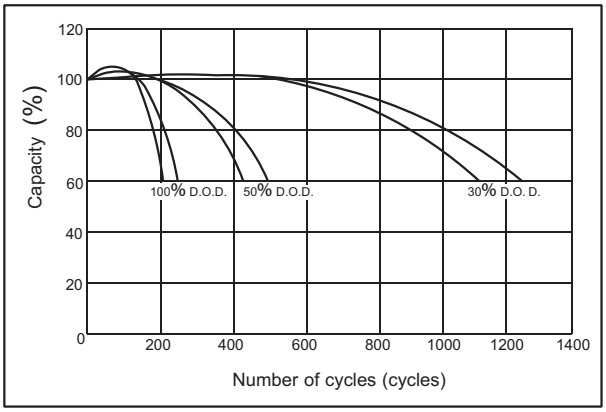
Self-discharge characteristics



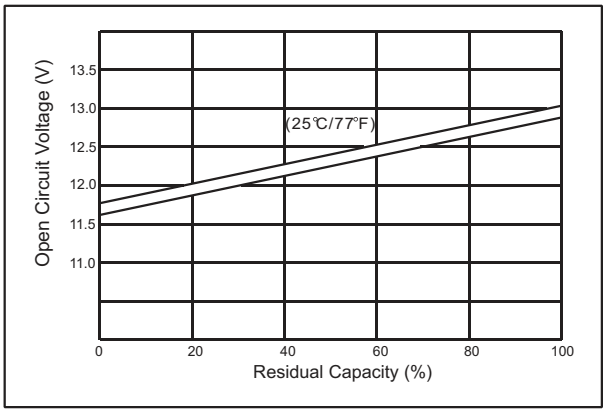
Floating life on Temperature



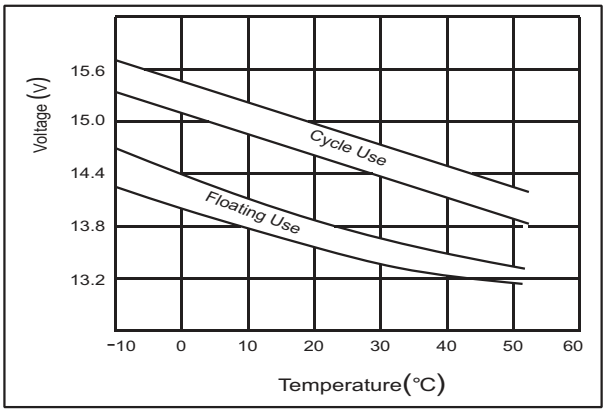
Cycle life on D.O.D (25℃)



The relationship for OCV and Capacity (25℃)



The relationship for Charging voltage and Temperature



MH47211

MADE IN VIETNAM