

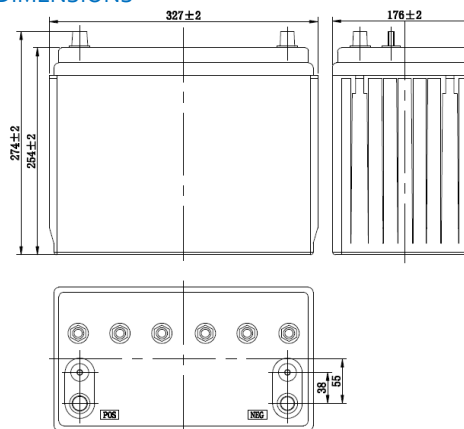
BW EV12-155A-AM DC (12V140Ah)

SPECIFICATIONS

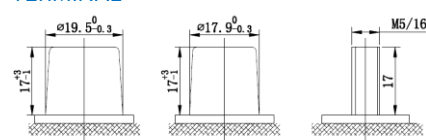
Nominal Voltage		12 V	
Capacity (25℃)	10HR	140 Ah	
	2HR	108 Ah	
Dimension	Length	327±2mm (12.88inch)	
	Width	176±2mm (6.93inch)	
	Height	254±2mm (10.00inch)	
	Total Height	274±2mm (10.80inch)	
Approx. Weight		85.6kg (188.7lbs) ±4%	
Terminal type		AT	
Internal resistance (Fully charged, 25℃)		Approx. 4m Ω	
Capacity affected by temperature (10HR)	40℃	102%	
	25℃	100%	
	0℃	85%	
	-15℃	65%	
Self-discharge (25℃)	3 month	Remaining Capacity: 91%	
	6 month	Remaining Capacity: 82%	
	12 month	Remaining Capacity: 65%	
Nominal operating temperature		25℃ ± 3℃ (77ℱ ± 5ℱ)	
Operating temperature range	Discharge	-15℃ ~ 50℃ (5ℱ ~ 122ℱ)	
	Charge	-10℃ ~ 50℃ (14ℱ ~ 122ℱ)	
	Storage	-20℃ ~ 50℃ (-4ℱ ~ 122ℱ)	
Float charging voltage(25℃)		13.60 to 13.80V Temperature compensation: -18mV/℃	
Cyclic charging voltage(25℃)		14.50 to 15.00V Temperature compensation: -30mV/℃	
Maximum charging current		42A	
Maximum discharge current		1400 A(5 sec.)	
Designed floating life(20℃)		10 years	
Component	Positive plate	Negative plate	Container
Raw material	Lead dioxide	Lead	ABS



DIMENSIONS



TERMINAL



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 (A, 25°C)

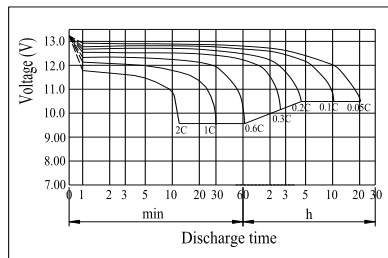
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	306	234	139	86.0	51.0	36.2	29.4	25.0	17.1	14.16	7.50
9.90V	295	228	137	84.8	50.4	36.0	29.0	24.8	17.0	14.12	7.48
10.2V	284	220	133	82.6	50.0	35.6	28.8	24.6	16.9	14.08	7.46
10.5V	272	212	129	80.8	49.2	35.4	28.6	24.4	16.8	14.04	7.42
10.8V	256	201	124	78.4	48.2	34.4	27.8	23.8	16.3	14.00	7.38

CONSTANT POWER DISCHARGE CHARACTERISTICS (WATT, 25°C)

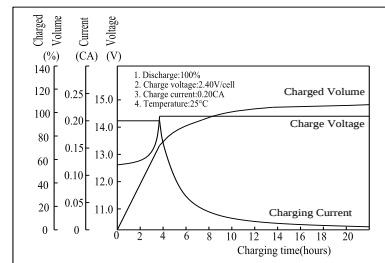
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	3274	2566	1568	980	588	426	344	296	204	169	90.0
9.90V	3176	2504	1536	966	584	424	342	292	203	168.8	89.8
10.2V	3046	2412	1490	942	580	420	340	290	201	168.2	89.6
10.5V	2914	2330	1454	920	572	418	336	288	200	167.4	89.0
10.8V	2752	2206	1402	892	556	404	328	280	194	166.0	88.4

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

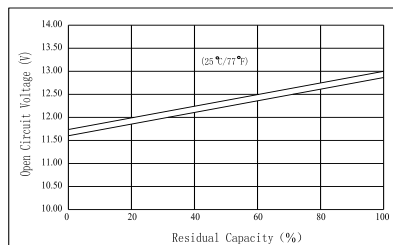
Discharge Characteristics (25°C)



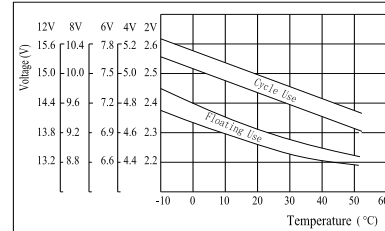
Charging Characteristics (25°C)



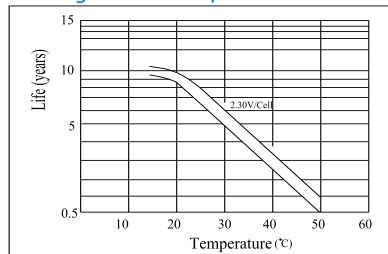
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



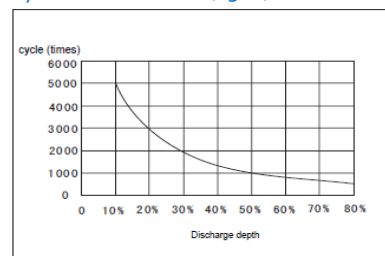
The Relationship for Charging Voltage and Temperature



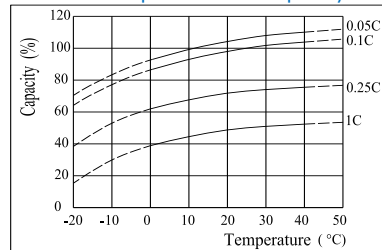
Floating Life on Temperature



Cycle Life on D.O.D (25°C)



Effect of Temperature on Capacity



Self-discharge Characteristics

