

# MODEL: OT80-12

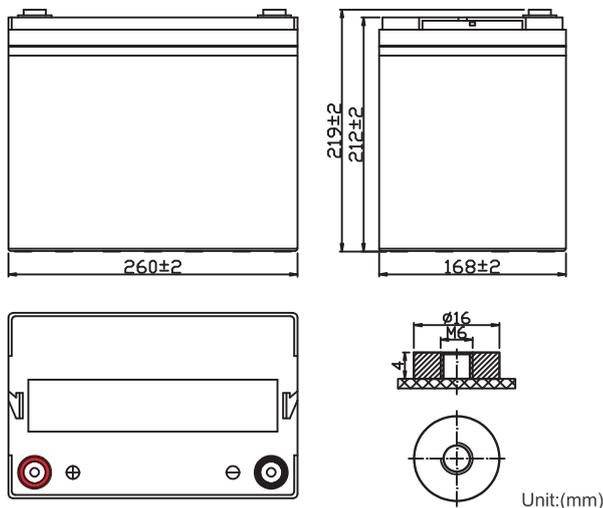


Container Color  
 Black C  
 Grey 3 C

## Parameter

Rated Voltage	12V	
Nominal Capacity(25°C)	80Ah(C <sub>10</sub> ,10.8V)	
Dimension	Length	260±2mm(10.24 inch)
	Width	168±2mm(6.61 inch)
	Container Height	212±2mm(8.35 inch)
	Total Height	219±2mm(8.62 inch)
Weight±3%	25.20Kg(55.56 lbs)	
Terminal	T1/M6	
Container Material	ABS	
Rated Capacity(25°C)	76.00Ah	(5HR,15.20A,10.5V)
	68.10Ah	(3HR,22.70A,10.2V)
	53.50Ah	(1HR,53.50A,9.6V)
Full charged Internal Resistance(25°C)	Approx.5.6mΩ	
Operating Temp.Range	Discharge	-20°C~50°C(-4°F~122°F)
	Charge	-20°C~40°C(-4°F~104°F)
	Storage	-20°C~40°C(-4°F~104°F)
Nominal Operating Temp.Range	25±3°C(77±5°F)	
Max.Charging Current(25°C)	25.5A	
Charge Voltage(25°C)	Cycle	14.5~14.9V
	Temp. Coefficient	-30mV/°C
	Float	13.6~13.8V
Self Discharge(25°C)	Temp. Coefficient	-18mV/°C
		≤3% per month
Design service life(25°C)	12 years	

### Plane Chart:



## Constant Current Discharge Characteristics (A, 25°C)

F.V./Time	5min	10min	15min	20min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	242.8	170.8	145.3	112.5	86.7	53.5	31.7	23.3	18.5	15.7	10.5	8.67	4.62
10.02V	233.5	163.5	141.8	109.6	84.6	52.0	31.2	22.9	18.2	15.5	10.4	8.62	4.57
10.20V	229.4	158.9	139.3	107.8	83.5	51.3	31.0	22.7	18.0	15.4	10.3	8.58	4.55
10.50V	215.5	150.7	135.8	105.3	82.2	50.4	30.5	22.4	17.8	15.2	10.2	8.55	4.50
10.80V	196.4	139.6	132.3	102.2	80.6	48.3	30.0	21.8	17.5	15.0	10.1	8.50	4.45

## Constant Current Discharge Characteristics (Watt, 25°C)

F.V./Time	5min	10min	15min	20min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	2525.3	1793.5	1569.1	1220.6	967.6	607.2	369.3	272.6	217.4	185.3	124.3	103.2	55.2
10.02V	2451.8	1733.1	1538.5	1194.6	947.5	592.8	363.5	267.9	213.9	182.9	123.1	102.6	54.6
10.20V	2443.4	1708.6	1520.9	1177.2	936.0	587.4	361.2	265.6	211.5	181.7	122.0	102.1	54.3
10.50V	2327.0	1634.8	1493.5	1160.4	922.3	577.1	355.3	262.1	209.2	179.1	120.8	101.7	53.7
10.80V	2160.0	1542.1	1465.5	1132.4	909.2	553.0	349.6	255.1	205.6	177.4	119.6	101.2	53.1

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

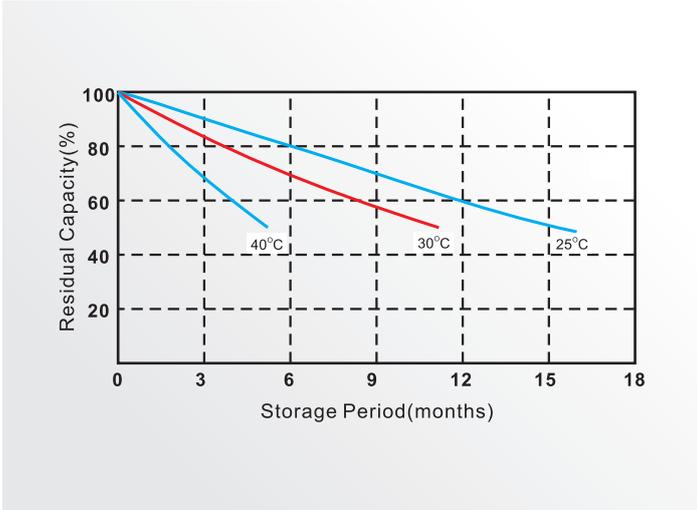
**MODEL: OT80-12**

**Application scope**

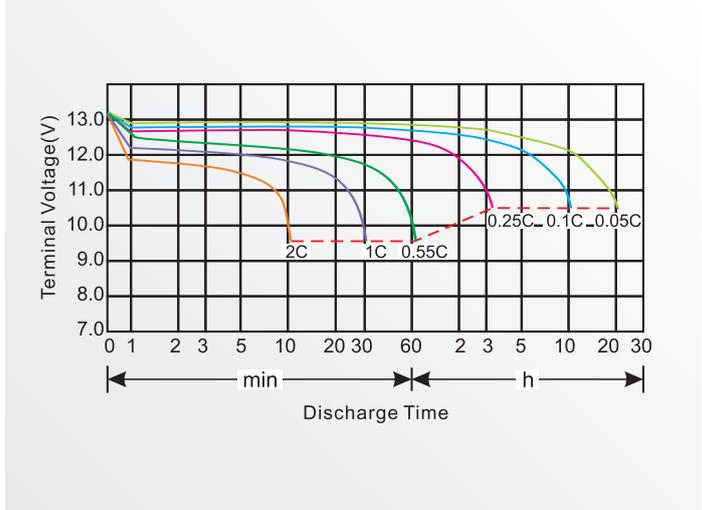
- Uninterruptable Power Supply(UPS)
- Industrial Process Control Facilities
- Data Network & Operation Centers
- Power supply system for electric tools
- Emergency Power Supply(EPS)
- Hospitals & Testing Laboratories
- Banks & Financial Markets
- Security alarm system



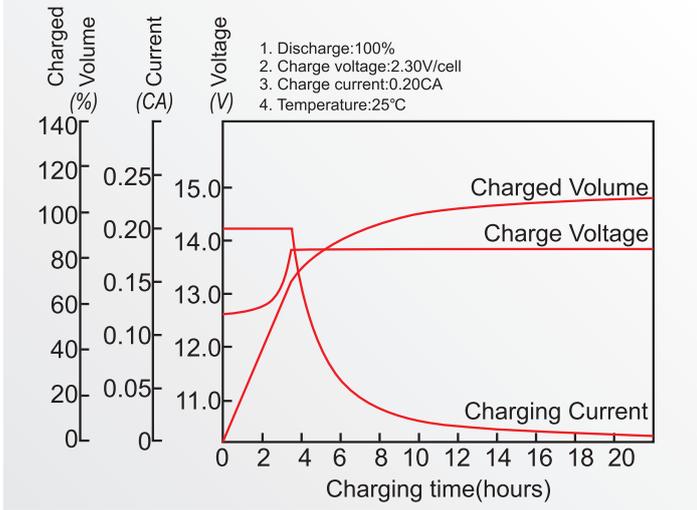
**Residual Capacity**



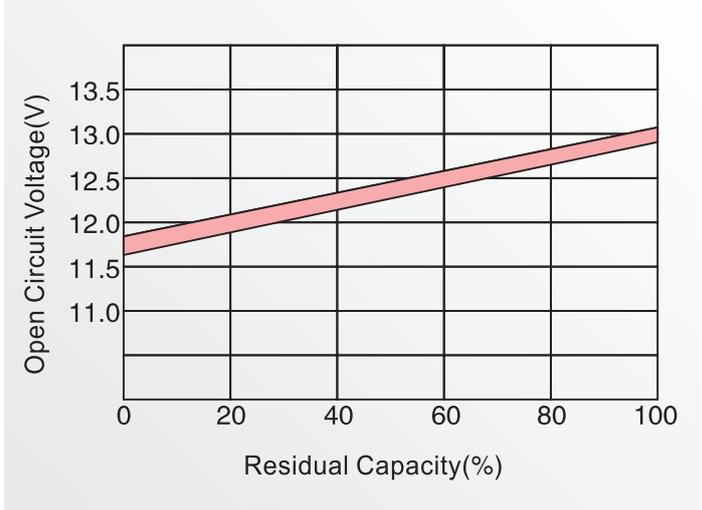
**Discharge Current 25°C**



**Constant voltage charging characteristics**



**The relationship for OCV and Capacity 25°C**



**Capacity Factors With Different Temperature**

-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

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