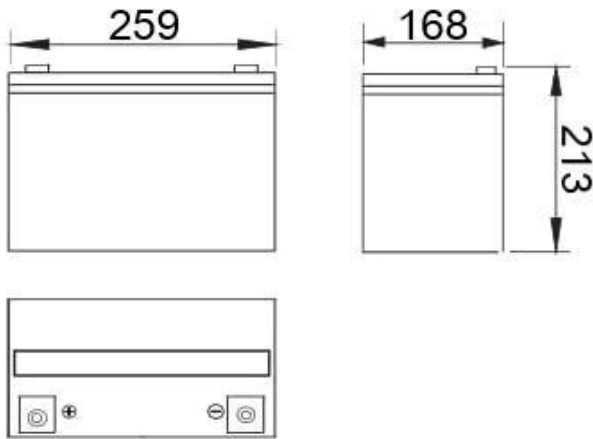


## (VRLA) GEL Battery

Valve Regulated Lead Acid Battery

### JP80-12G

#### DIMENSION



#### Specification

- ✂ Nominal Voltage : 12V
- ✂ Dimension
  - Length : 259 mm
  - Width : 168 mm
  - Overall Height : 213 mm
- ✂ Weight ( Approx. ) : 25.8kg
- ✂ Nominal Capacity : 80AH / 20HR ( 25° C )
- ✂ Internal Resistance(Approx.) : < 6.5 mΩ
- ✂ Float Charging : 2.27 ~ 2.28 vpc ( 25°C )
- ✂ Cycle Charging : 2.35 ~ 2.4 vpc ( 25°C )
- ✂ Terminal :
  - Top terminal : Bolt ( M8 )
- ✂ Operating Temperature Range
  - Discharging -15°C to 45°C
  - Charging -15°C to 45°C
  - Storage -15°C to 45°C
- ✂ Cyclic : 500 ~ 3000 Charge / Discharge ( Refer Cyclic Curve )
- ✂ Expected float use life ( 20 ° C ) : 10 Years
- ✂ Easy Maintenance
  - No electrolyte leakage
  - Ensure safe and efficient operation
- ✂ Container Material : ABS
- ✂ Applications :
  - UPS ( Uninterruptible Power Supply ),
  - Telecommunications, Emergency Lighting,
  - Alarm Systems, Solar Powered Systems,
  - Alternative Energy Storage, Solar Street Lights,
  - General Applications

## Constant Current Discharge Characteristics Unit:A(25°C,77°F)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	174	134	80.4	49.4	29.2	21.1	16.8	14.4	9.87	8.14	4.32
9.90V	169	131	78.8	48.7	29.1	20.9	16.7	14.3	9.82	8.13	4.31
10.2V	162	126	76.4	47.5	28.8	20.8	16.6	14.2	9.75	8.10	4.30
10.5V	155	122	74.5	46.0	28.4	20.6	16.5	14.1	9.68	8.06	4.27
10.8V	146	116	71.8	44.5	27.6	20.0	16.0	13.7	9.39	8.00	4.24

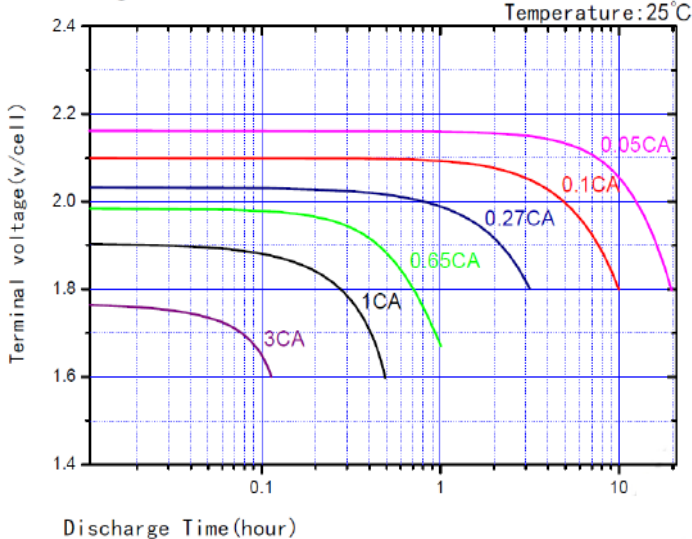
## Constant Power Discharge Characteristics Unit:W(25°C,77°F)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1884	1476	902	564	339	248	198	170	117	97.2	51.8
9.90V	1827	1440	884	555	337	246	197	169	117	97.0	51.7
10.2V	1752	1387	857	541	334	244	195	168	116	96.8	51.5
10.5V	1676	1340	836	524	329	243	194	166	115	96.2	51.2
10.8V	1582	1269	806	507	320	235	188	161	112	95.5	50.9

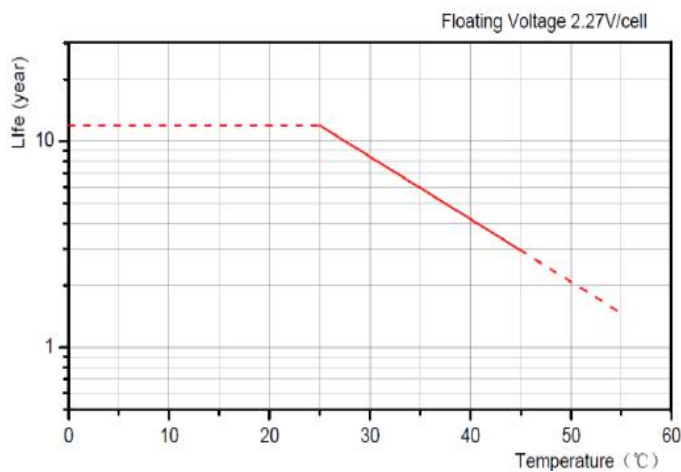
Note: The above characteristics data can be obtained within three charge or discharge cycles.

### Characteristics

Discharge characteristics at each hour rate



LIFE TIME VS TEMPERATURE



### Battery Float Charging (Temperature compensation)

Temperature °C	Float Charge Volt/Cell
5	2.31
10	2.29
15	2.28
20	2.27
25	2.27
30	2.25
35	2.23

