

OR-1270HR GENERAL CHARACTERISTICS

- Positive and negative plates in lead-calcium tin alloy
- Superior energy density
- Operates at a low internal pressure.
- Gas Recombination
- Usable in any orientation
- A recognized component of UL

- Very high power output
- Application specific designs
- A couple Range from 13W to 890W per cell for 10' @ 1.60Vpc
- Six months shelf life at 20c
- Design life 5 years



DIMENSIONS AND WEIGHT

	SI	Imperial
Length	151 mm	5.94 inch
Width	65 mm	2.56 inch
Height	94 mm	3.70 inch
Total Height	100 mm	3.94 inch
Approx. Weight	2.80 Kg	6.17 lbs

HIGH RATE DISCHARGE

The new ORIGIN HR series batteries are specially designed for applications where need high power output. By optimum design of battery grids and plate paste formula, the HR series can deliver up to 40% more power than standard AGM series.

PERFORMANCE CHARACTERISTICS

BATTERY CONSTRUCTION

Component Raw Material — Positive plate Lead Dioxide — Negative plate Lead — Container ABS
— Cover ABS — Safety valve Rubber — Terminal Copper — Separator Fiberglass — Electrolyte Sulfuric acid

- Nominal Voltage — 12V
- Number of cell — 6
- Design Life — 5 years
- Nominal Capacity 77oF(25oC)
 - 20 hour rate (0.35A, 10.5V) — 7Ah
 - 10 hour rate (0.68A, 10.5V) — 6.8Ah
 - 5 hour rate (1.13A, 10.5V) — 5.65Ah
 - 1 hour rate (4.56A, 9.6V) — 4.56Ah
- Internal Resistance
 - Fully Charged battery 77oF(25oC) — 30mOhms
- Self-Discharge
 - 3% of capacity declined per month at 20oC(average)

- Operating Temperature Range
 - Discharge — -20~60oC
 - Charge — -10~60oC
 - Storage -20~60oC
- Max. Discharge Current 77oF(25oC) — 105A(5s)
- Short Circuit Current — 350A
- Charge Methods: Constant Voltage Charge 77oF(25oC)
 - Cycle use — 2.40-2.45VCP
 - Maximum charging current — 2.8A
 - Temperature compensation — -30mV/oC
- Standby use — 2.23-2.30VCP
 - Temperature compensation — -20mV/oC

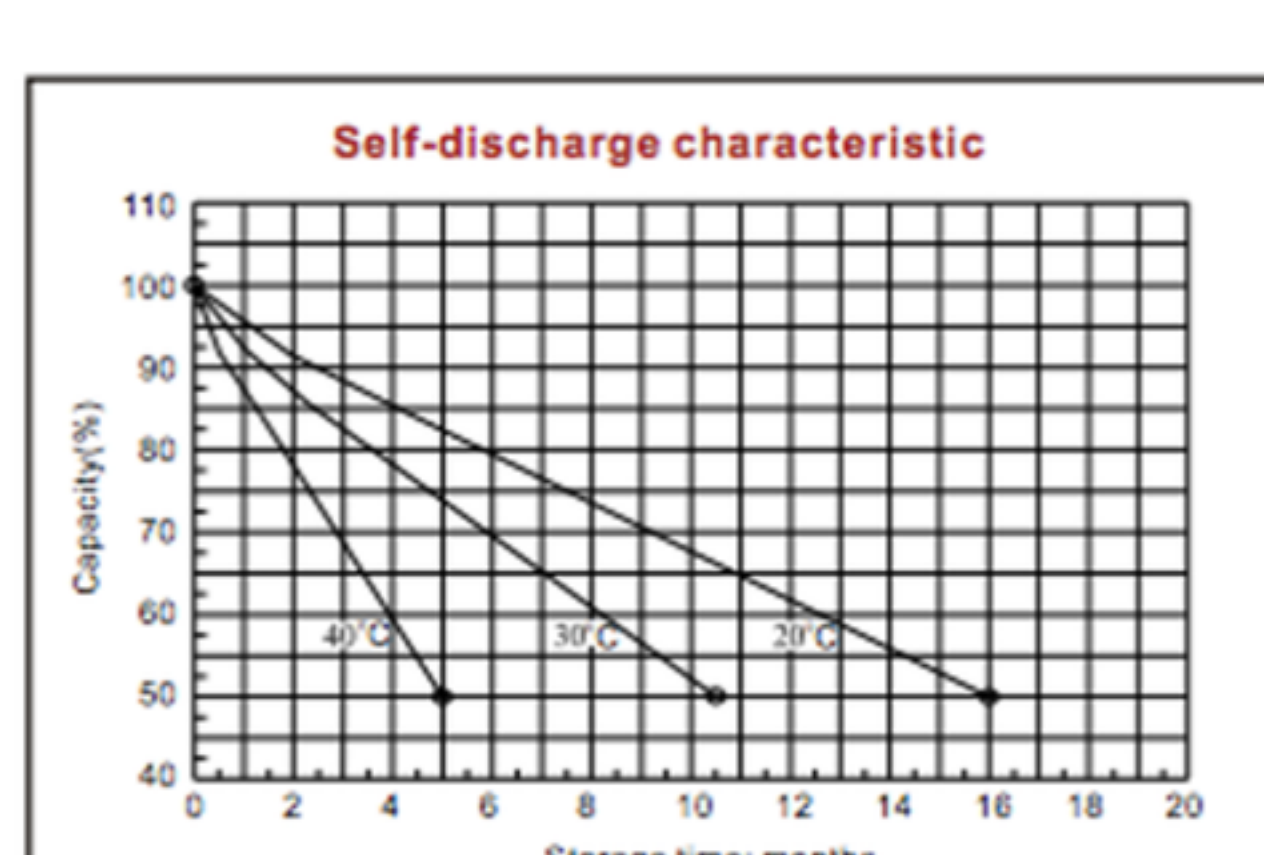
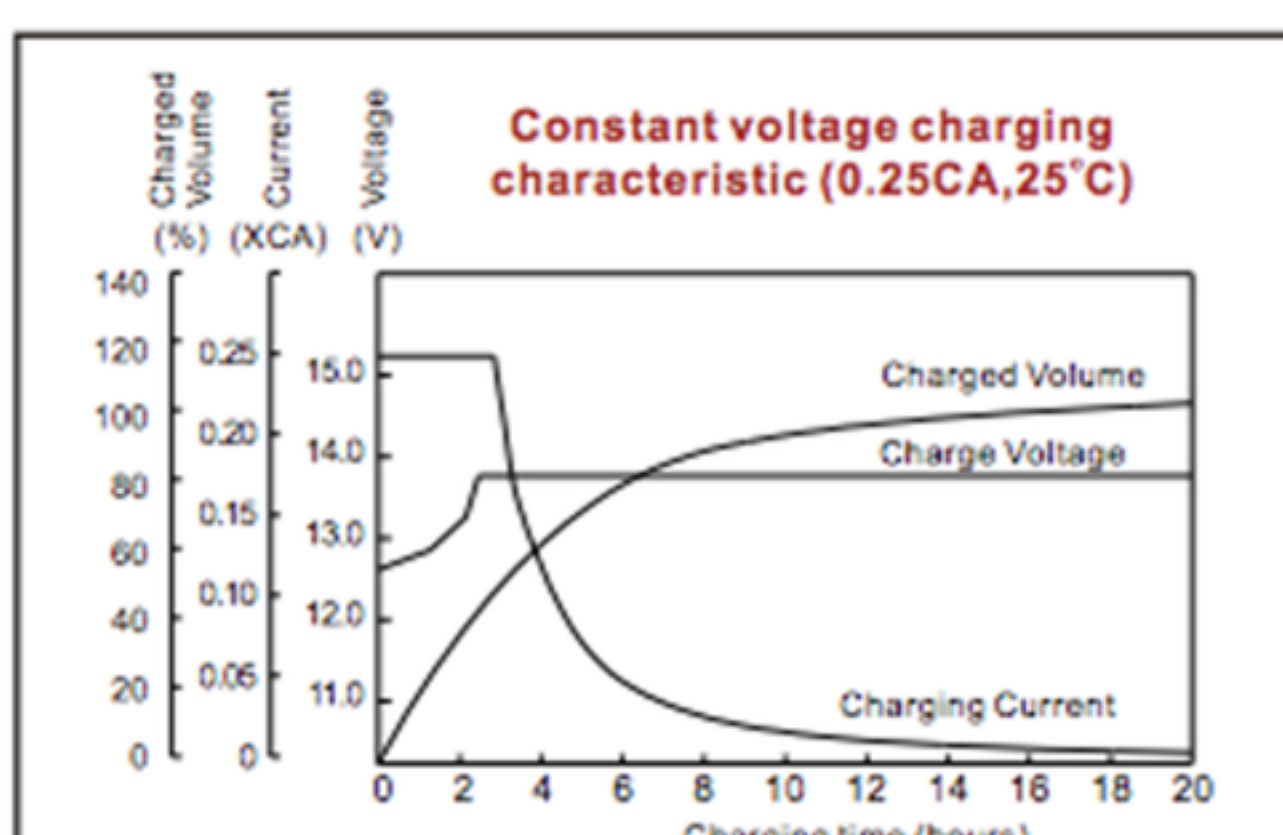
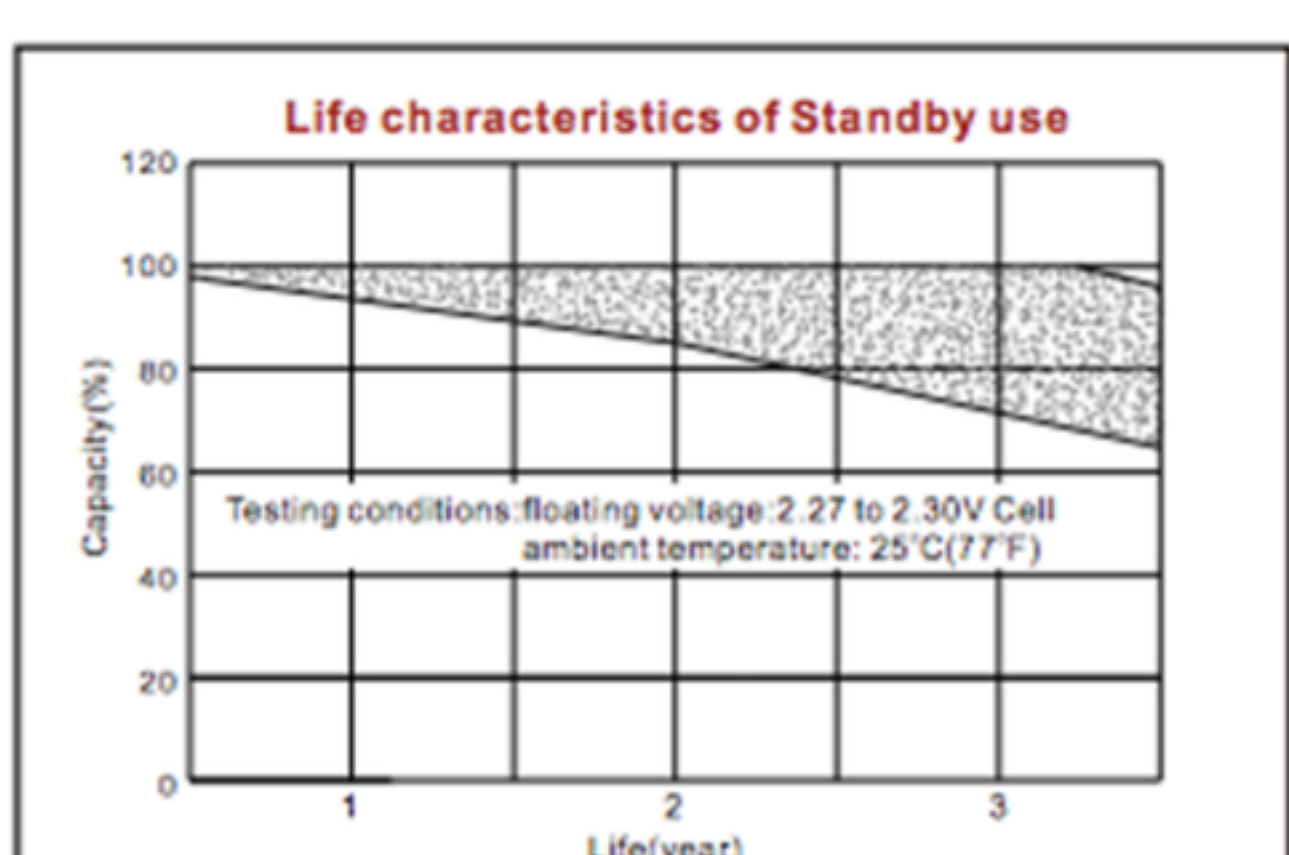
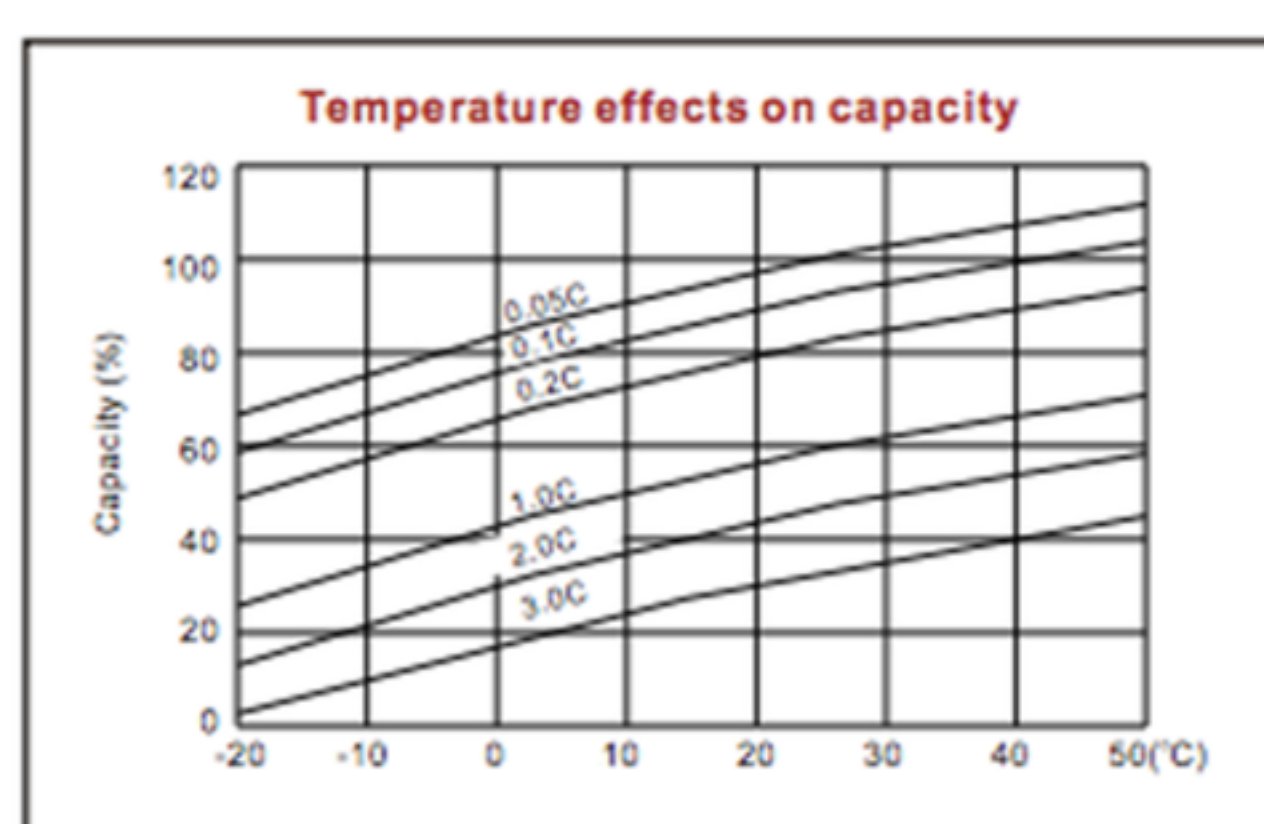
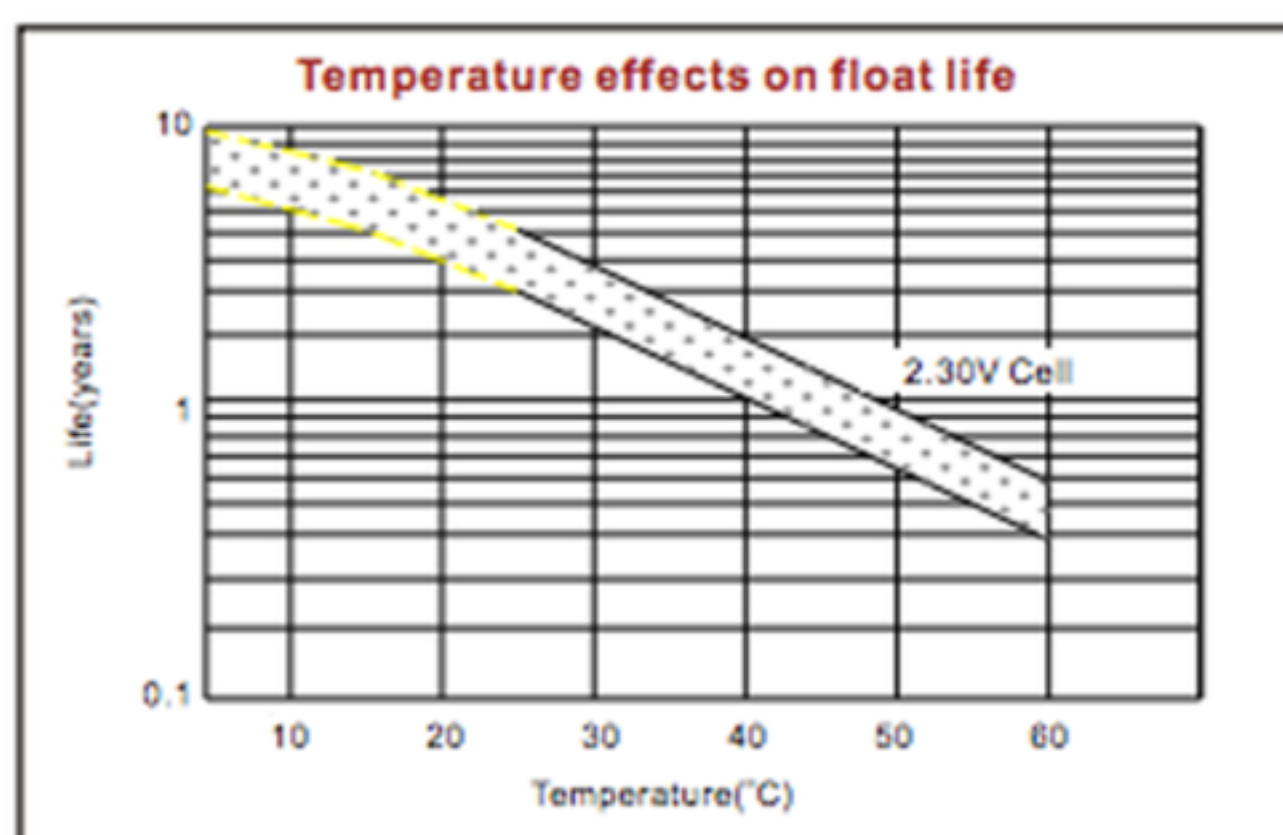
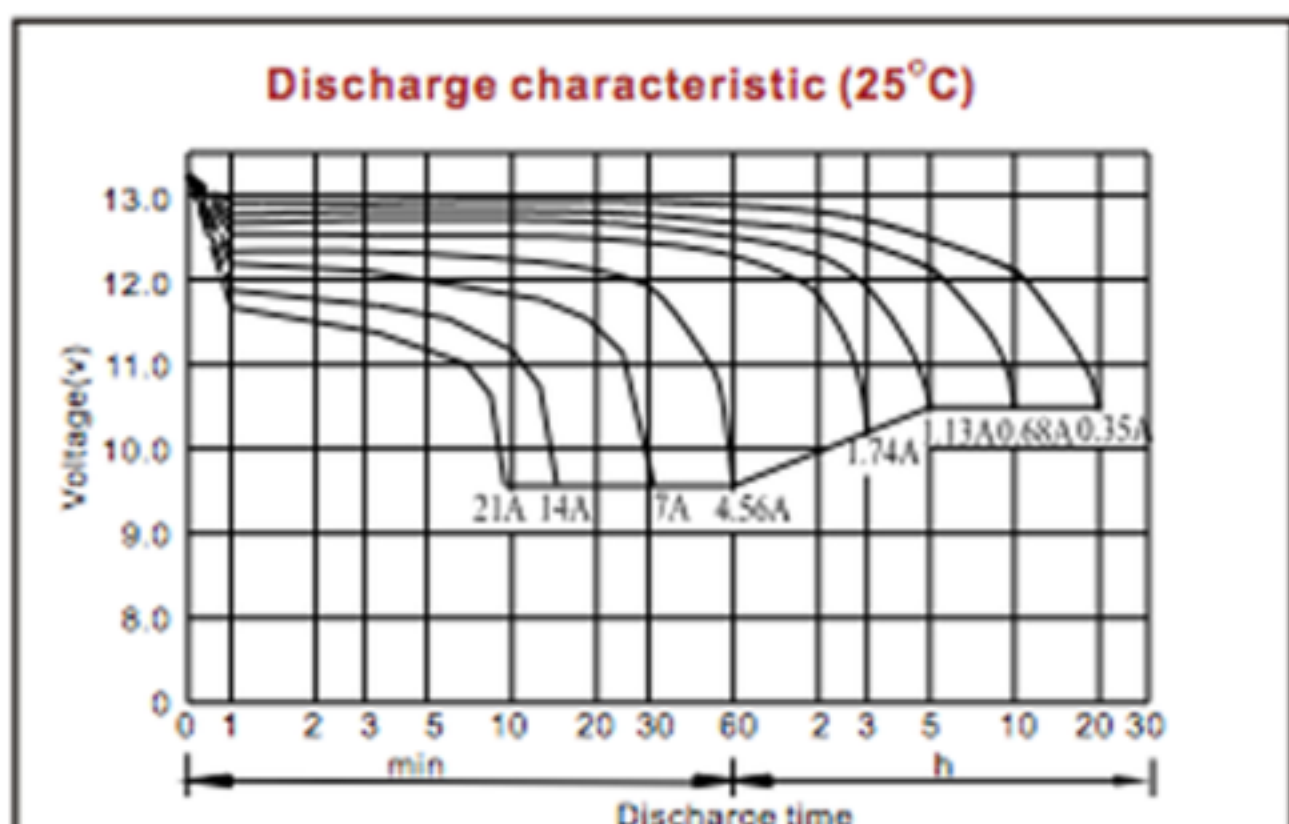
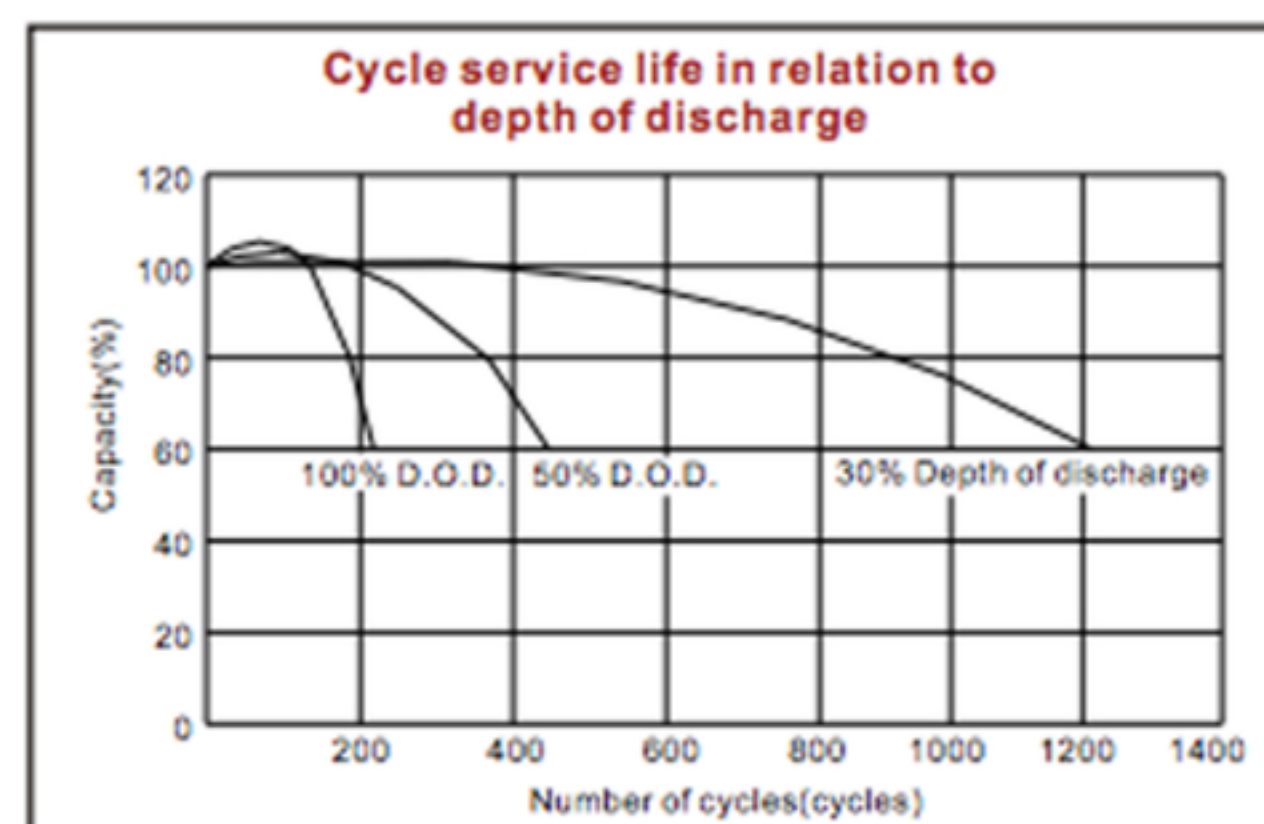
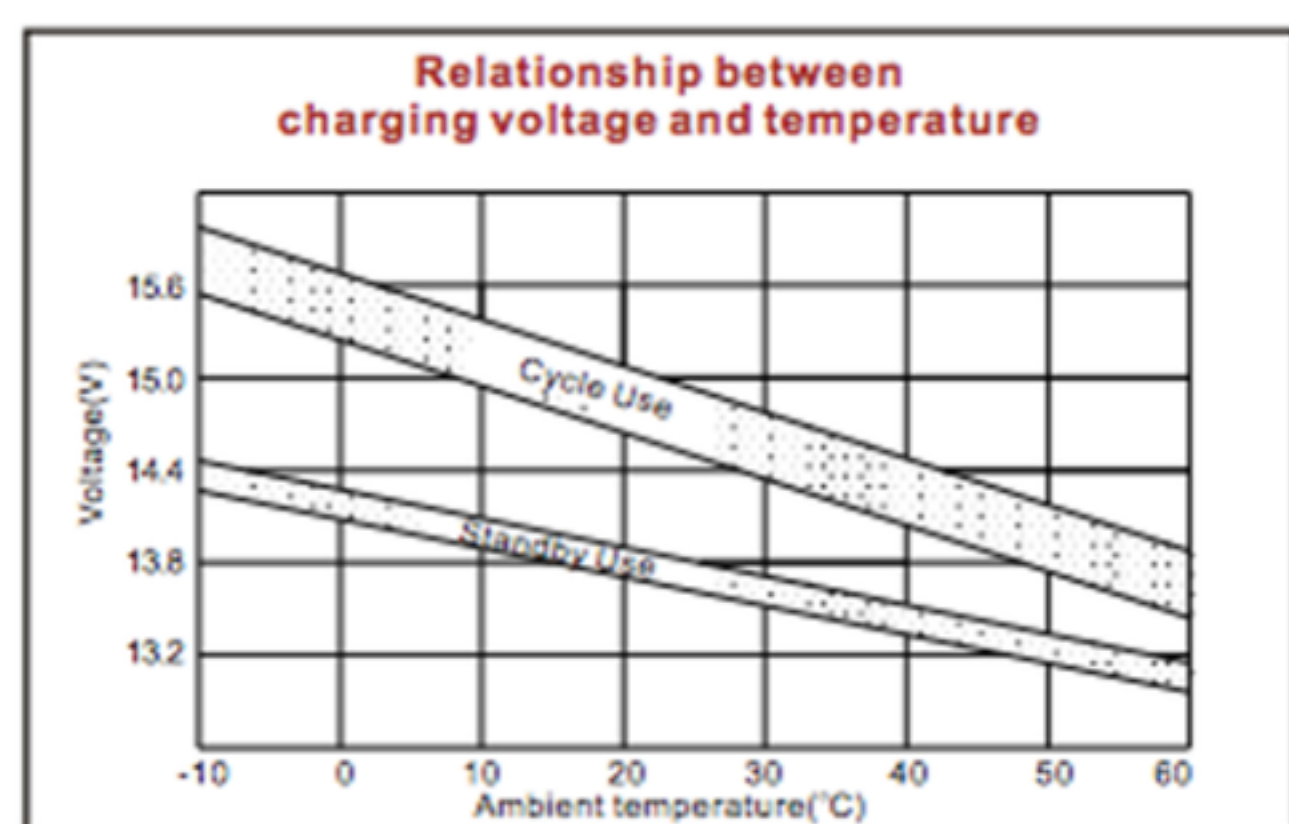
UPC Code: 024606140281



High-Tech Battery Solutions Inc, 2065 Midway Dr. Twinsburg, OH 44087, United States
Tel: 1-877-775-4381 Fax: 330-319-7378 Email: sales@techbatterysolutions.com
Website: <http://www.techbatterysolutions.com>

OR-1270HR BATTERY SPECIFICATIONS

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	29.1	18.4	14.8	8.30	4.56	1.84	1.26	0.70	0.363
1.65V	27.5	17.5	14.2	7.90	4.40	1.80	1.22	0.69	0.359
1.70V	26.0	16.7	13.6	7.62	4.22	1.74	1.17	0.69	0.355
1.75V	24.4	15.7	13.0	7.24	4.04	1.68	1.13	0.68	0.350
1.80V	22.8	14.8	12.4	7.03	3.84	1.63	1.08	0.66	0.344



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