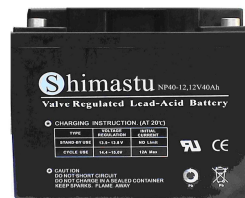


12V40Ah is a long service life battery with 10 years service life under normal float charge at 20-25°C Shimastu batteries are Seal Lead Acid with Valve Regulated Lead Acid (VRLA) design. Rechargeable, Highly efficient, Leak proof and Maintenance free.



## NP40-12

### SPECIFICATIONS

<b>Cell per unit</b>	6 Cells.
<b>Voltage per unit</b>	12 Volts.
<b>Capacity</b>	40 Ah at 10 hr-rate to 1.75V per cell at 25 °C
<b>Weight</b>	Approx. 12.8 Kgs.
<b>Maximum Discharge Current</b>	400A (5 Sec)
<b>Internal Resistance</b>	Approx. 10 milli Ohm.(Full charged battery)
<b>Normal Operating Temperature Range</b>	25 °C + 5 °C
<b>Operating Temperature Range</b>	Discharge : -20°C ~ 60°C Charge : 0°C ~ 50°C Storage : -20°C ~ 60°C
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC/unit Average at 25 °C Temp.
<b>Equalization and Cycle service</b>	14.1 to 14.4 VDC/unit Average at 25 °C Temp.
<b>Maximum Charging Current</b>	10A
<b>Terminal type</b>	M6/L6
<b>Container Material</b>	ABS(UL94-HB),Flammability resistance of UL94-V1 can be available upon request
<b>Separator</b>	AGM (Absorbed Glass Mat type Microporous material)
<b>Self Discharge</b>	Not more than 3% per month at 25 °C

<b>Dimension</b>	<b>Terminal</b>	<b>Standard</b>

#### CONSTANT POWER DISCHARGE RATING AMP PER CELL@25°C

F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	154.0	105.6	77.0	46.2	29.2	12.0	8.4	4.25	2.11
1.67V	138.6	96.3	74.8	44.9	28.9	12.0	8.3	4.18	2.11
1.70V	132.0	93.0	72.1	44.0	28.9	12.0	8.3	4.14	2.11
1.75V	116.6	85.8	68.2	43.1	28.6	11.9	8.3	4.08	2.09
1.80V	105.6	79.8	65.1	41.8	28.3	11.9	8.2	4.00	2.02

#### CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	254.1	173.8	136.4	87.1	57.2	23.0	16.1	8.48	4.22
1.67V	239.8	172.7	135.3	85.3	55.3	23.0	16.1	8.35	4.20
1.70V	225.5	169.4	133.1	83.1	53.8	23.0	16.1	8.29	4.20
1.75V	210.1	157.3	125.4	80.9	53.4	22.7	15.8	8.15	4.18
1.80V	188.1	146.3	117.7	78.7	52.5	22.3	15.6	8.00	4.03

### FEATURES

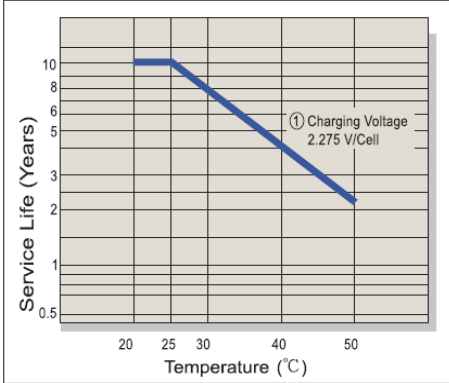
- Maintenance free(no water topping-up required).
- No free acid(Non-spillable battery).
- Low self-discharge rate, lower than 3% capacity loss per month.
- Can be used in any orientation(excluding used inverted).
- Flame-arrestor is installed to ensure safety
- Carry handles for easy installation

### APPLICATIONS

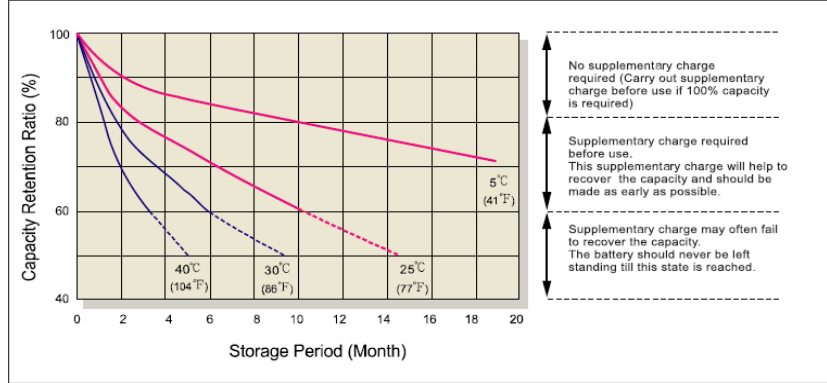
- Cable Television
- Communication Equipments
- Electric Power Systems
- Security Systems
- UPS systems
- Control Equipments
- Medical Equipments
- Emergency Power Systems
- Power Plant

NP40-12  
(12V40Ah)

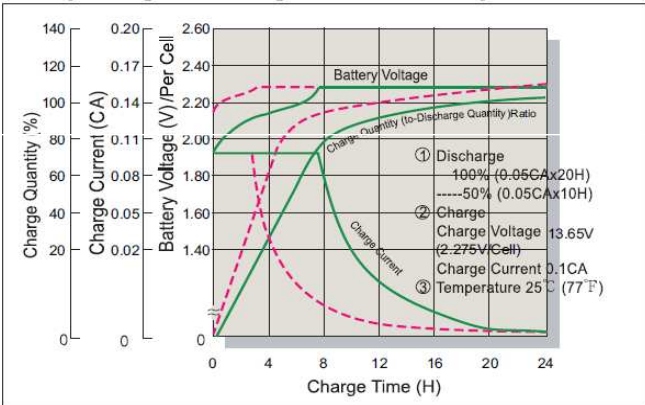
#### Trickle (or Float) Service Life



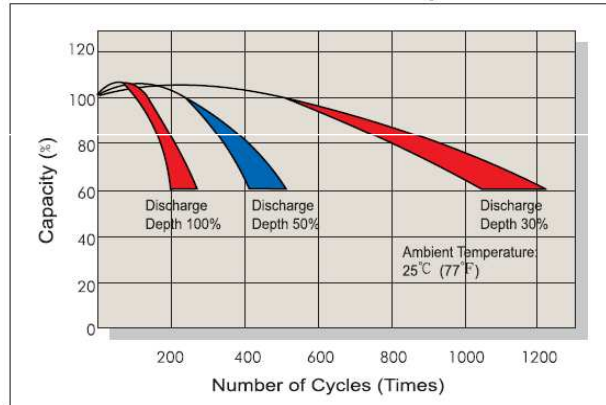
#### Capacity Retention Characteristic



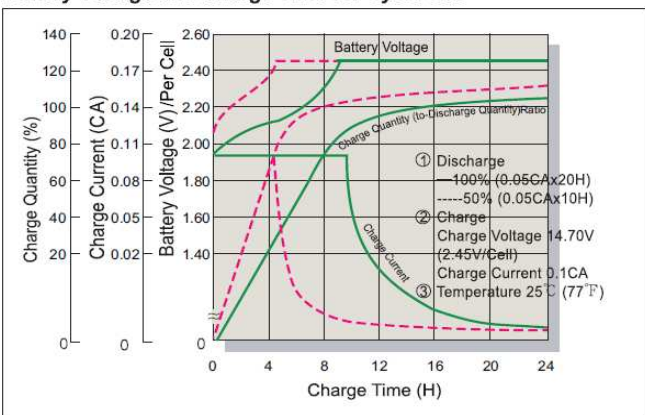
#### Battery Voltage and Charge Time for Standby Use



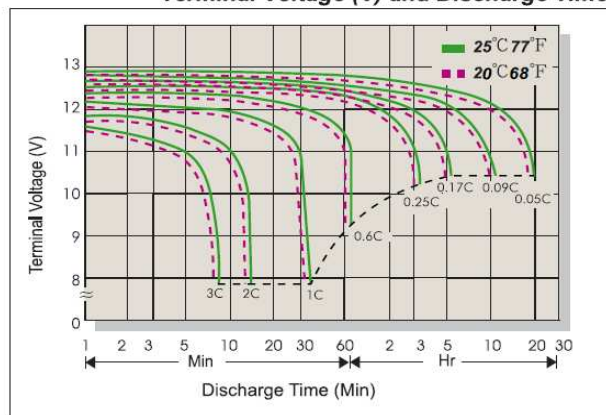
#### Cycle Service Life



#### Battery Voltage and Charge Time for Cycle Use



#### Terminal Voltage (V) and Discharge Time



Shimastu, a specialist in Sealed Lead Acid (SLA) batteries from Japan AGM technology, has been researching, developing, manufacturing and marketing SLA batteries throughout the world since 1995. Adopting the advanced technical process from Japan Technology and modern production machines and testing equipment, Shimastu has been supplying customers with NP series of SLA batteries which are longer in service life, much higher in quality, and more reliable and stable in performance.

Shimastu, a Sino-Japan joint-venture, has a staff of more than 500 people including 30 technicians. Shimastu has been exporting SLA batteries to the world under its own brand "Shimastu" or by OEM orders. Shimastu can produce more than 150,000 units of batteries every month on average and take more than 30 quality control checks from IQC to FQC. Up to now, Shimastu has been awarded ISO9001, ISO14001, UL and CE certificates.