

NP7-12 (12V7AH)

APPLICATIONS

- Emergency lighting equipment
- Fire alarm and security systems
- Uninterruptible power supply
- Telecommunication equipment
- Electric equipment and telemeter equipment
- Lighting equipment
- Wireless lawn movers, vacuum cleaner and washing machine
- Toys and consumer electronics
- Portable video camera
- Portable personal computer

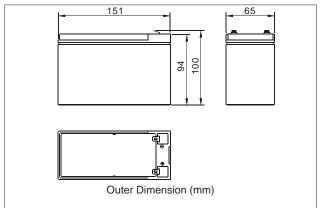
Shenzhen Matrix Battery Co.,Ltd. Manufacturer of sealed lead acid battery

- Sealed Lead-acid Battery
- Valve Regulated Lead Acid Battery

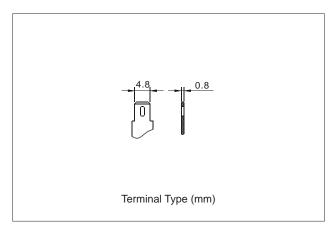


The Matrix Sealed Lead Acid Battery (SLA battery) is and advanced and economic rechargeable battery. It have several properties differ from other type of batteries:

- 1. Maintenance Free As it is valve-regulated, sealed and glass-mat is utilized, acid is trapped inside. So, refilling is not needed and is leakproof.
- 2. High Power-To-Weight Ratio Matrix SLA batteries can provide much power in comparison to its weight.
- 3. No Memory Effect Some batteries, say nickel-cadmium batteries, will become conditioned to provide less power after repetitious short usage/discharge.
- 4. Low Self discharge The self-discharge rate for Matrix SLA battery is about 2-3% per month at room temperature compared with 20-30% for other common battery systems.
- 5. Long Service Life Utilized thick and massive calcium grides ensure that Matrix SLA battery has a long service life.
- 6. High Discharge Rate Since the internal resistance is low, the battery can provide high rate of discharge.







Capacity	40℃	102%				
affected	25℃	100%				
by Temperature	0℃	85%				
(20hr)	-15℃	65%				
Calf Diagharas	3 month	Remaining capacity: 919				
Self-Discharge at 25℃	6 month	Remaining capacity: 82%				
dt 200	12 month	Remaining capacity: 65%				
Normal opera	ting temperature	25 ℃ ±3℃(77 ℉ ±5℉)				
Operating ten	nperature range	-15℃~50℃(5~122℉)				
Float chargin	g voltage(25℃)	13.6 to13.8V				
Cyclic chargir	ng voltage(25℃)	14.5 to 14.9V				
Maximum cl	naging current	2.80A				
Termina	almaterial	Copper				
Maximum Di	schage current	105A(5sec)				

Internal Resistance (Full

charged Battery at 25°C (77°F)

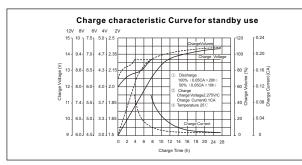
 $25m \Omega$

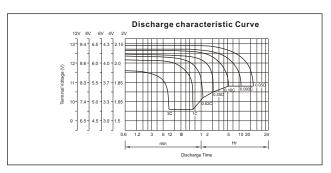


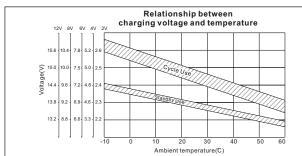
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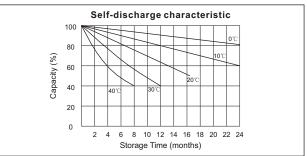
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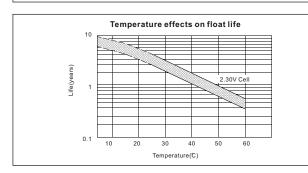
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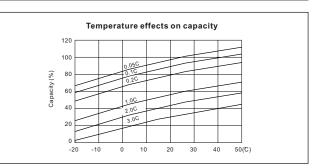


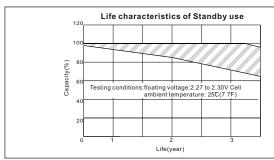


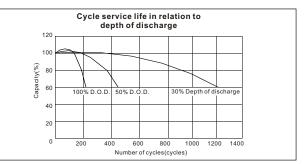












	Constant Current Discharge Characteristics (Amperes, 25°C)						Constant Power Discharge Characteristics (Watts, 25°C)									
F.V/Time	5min	10min	30min	1h	3h	5h	10h	20h	5min	10min	30min	1h	3h	5h	10h	20h
10.80V	17.56	16.68	7.70	4.38	1.87	1.23	0.70	0.35	222.0	147.00	62.42	37.80	19.95	13.18	7.42	4.26
10.50V	19.60	17.50	7.88	4.49	1.87	1.23	0.70	0.35	239.4	158.08	66.62	39.90	20.53	13.65	7.58	4.29
10.20V	22.40	17.73	8.11	4.61	1.93	1.28	0.70	0.35	257.7	169.17	70.93	42.00	21.00	14.23	7.65	4.32
9.60V	24.56	18.67	8.46	4.78	1.93	1.28	0.70	0.35	294.0	191.57	78.75	46.20	22.05	14.70	7.65	4.38