



# DIGITAL SCREEN INTELLIGENT STORAGE LITHIUM BATTERY

**MODEL: PN MS38-12(L)**

**NO:**

Container Color		Plane Chart:	
		PANTONE	
		3516C	
		Black C	
		Terminal type	LC1
		38 A	BMS
		20241101	Time
		 <b>UN38.3</b>	
Function	(YES) Digital Display (NO) Bluetooth	Product Size: 197*165*172 (mm)	

## Parameter Chart:

Rated Voltage	12.8	V
Rated Capacity(25°C)	38	Ah
Series & Parallels	4 ~ 1	S/P
Voltage Range	10 ~ 14.6	V
Rated Energy	486.4	Wh
Maximum Discharge Current	38	A
Maximum Charge Current	38	A
Discharge cut-off voltage	≥ 10	V
Charge voltage	14.6	V
Cycle life(@25°C ,100%DOD )	≥ 3000	Cycle
Float Voltage	13.6 ~ 13.8	V
Operating humidity	60 ± 25%	R.H.
Certified	CE/UN38.3	
Communication	/	
Total Weight	Approx. 4.45 ± 0.10	Kg
Operating temperature	Charging 0 ~ 45°C Discharging -20 ~ 55°C	

## Long-term Storage

After the battery is charged, it should be used as soon as possible to avoid loss of usable capacity due to self-discharge.

If storage is required, the battery needs to be stored in a low SOC state. The recommended storage conditions are: 20%~40%SOC, 0°C~35°C, relative humidity ≤60%.

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

Time(h)	1.00	2.00	4.00	5.00	8.00	10.00	15.00	20.00
Current (A)	38.00	19.00	9.50	7.60	4.75	3.80	2.53	1.90

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

Time(h)	1.00	2.00	4.00	5.00	8.00	10.00	15.00	20.00
Watt (W)	486.40	243.20	121.60	97.28	60.80	48.64	32.43	24.32

## Capacity Factors With Different Temperature

Discharge	-20	-10	0	10	20	25	30	40	50	55	60
	≥55	≥70	≥90	≥95	≥100	≥100	≥100	≥98	≥97	≥95	≥93

## Matters needing attention

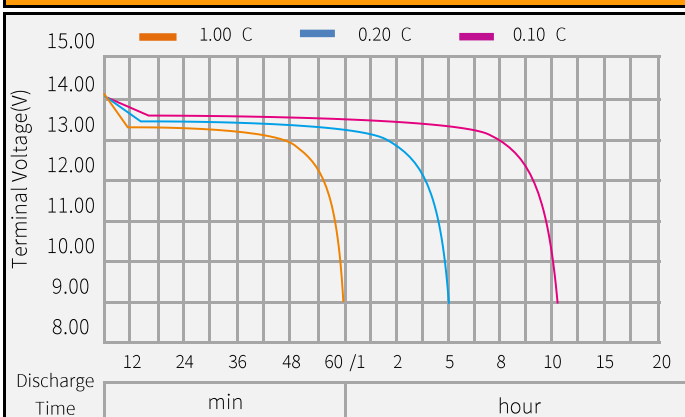
★ The above parameters are for reference only. The accurate parameters shall be based on the actual production order.

★ During usage, it is strictly prohibited to reverse the positive and negative terminals of the battery.

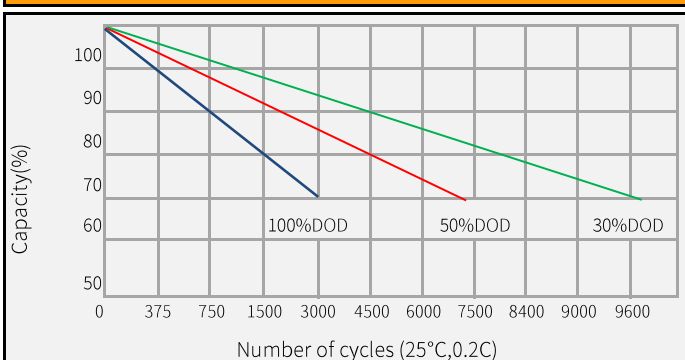
★ Please use a special charger for lithium-ion batteries when charging.

★ If series or parallel connection is required, please consult the agent or manufacturer.

## Discharge Current 25°C



## Cycle service life in relation to the depth of discharge



## Charge and Discharge at 25°C, 0.2C

