

## Communication RS485 & LCD control

## Application



House ESS Communication Station



Commercial Backup

## Features

- High cycle life. Keep capacity higher than 80% (@>4600 cycles; @80% DOD)
- Completely closed design with low maintenance
- BMS is incorporated against abuse
- Ultra low self discharge, up to 6 month energy storage
- Allow quick-recharge by large charge/discharge rate  
Save time and increase productivity
- Excellent temperature compatibility;  
Work at temperature of -20°C~60°C

## Protection

- Short circuit
- Low volt / High volt
- Over-charge / Over discharge
- Over temperature

\* Specification subject to change without notice

## Electrical Specification

### BW24120PL

Rated voltage	25.6 Vdc
Rated capacity	120 Ah
Rated energy	3072 Wh
Charge Efficiency	99.5% @0.2C
Discharge Efficiency	96%-99% @1C
Communication	RS485
Self Discharge	<3% / Month

## Charge

Rated Charge Current	60 Adc
Max. Charge Current	75 Adc
Rated Charge Voltage	28.4 Vdc
Over Charge Protection Voltage	28..8 Vdc
Over Charge Protection Release	27 Vdc
Over Current Warning	>75A@1s

## Discharge

Rated Discharge Current	120 Adc
Max. Discharge Current	130 Adc (8 sec)
Over Discharge Warning	3000mv@1s
Over Discharge Protection	2600mv@1s
Over Discharge Protection Release	3050mv
Over Current Warning	>130A@8s
Short Circuit Protection	0.25s

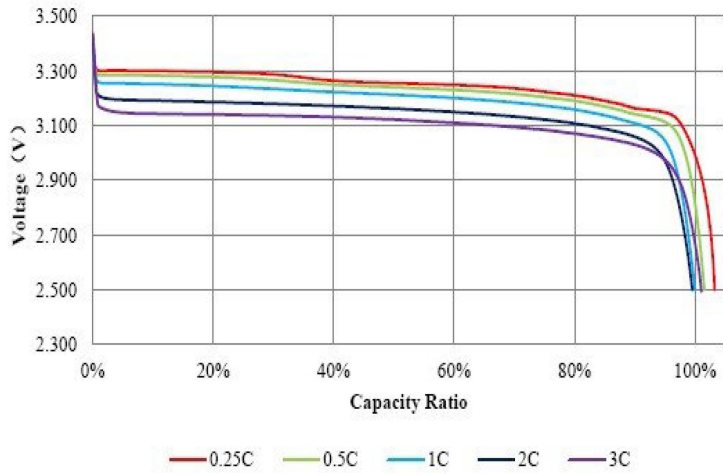
## Mechanical

Dimension (L×W×H)	520×267×272 mm
Product Weight	30.5 +/- 0.5 Kg
Terminal Type	T18
Battery Cell Configuration	8S1P
Case Material	ABS + PC
Housing Protection	IP54

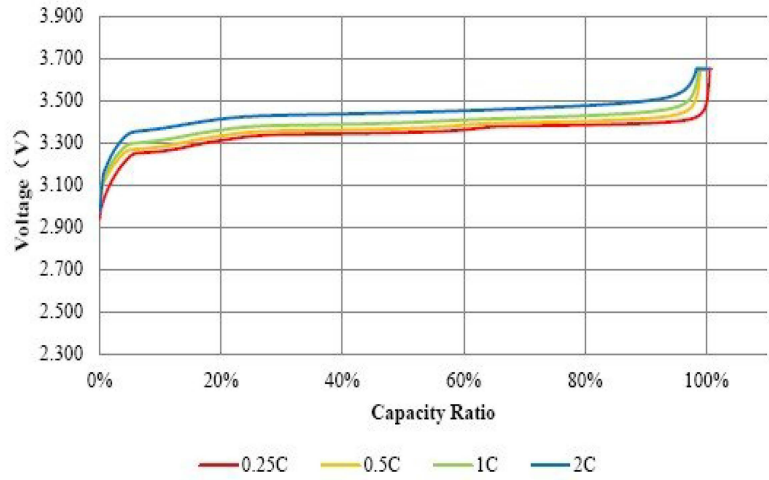
## Temperature

Discharge Temperature	-20°C~60°C
Charge Temperature	0°C~50°C
Storage Temperature	-20°C~35°C
BMS High Temperature Cut-Off	60°C
Reconnect Temperature	53°C

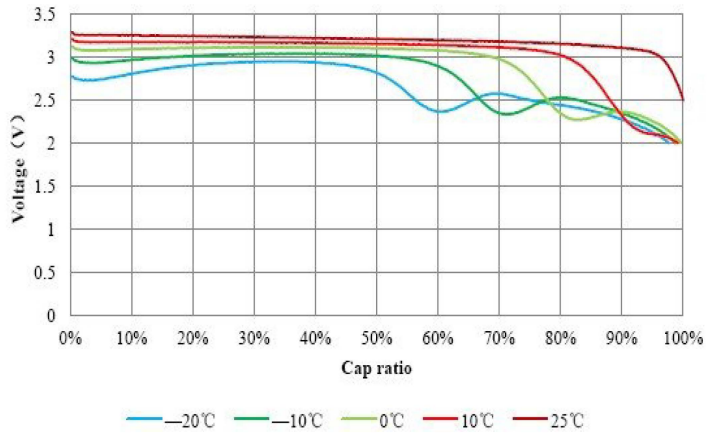
Rate Discharge Characteristics @ 25°C



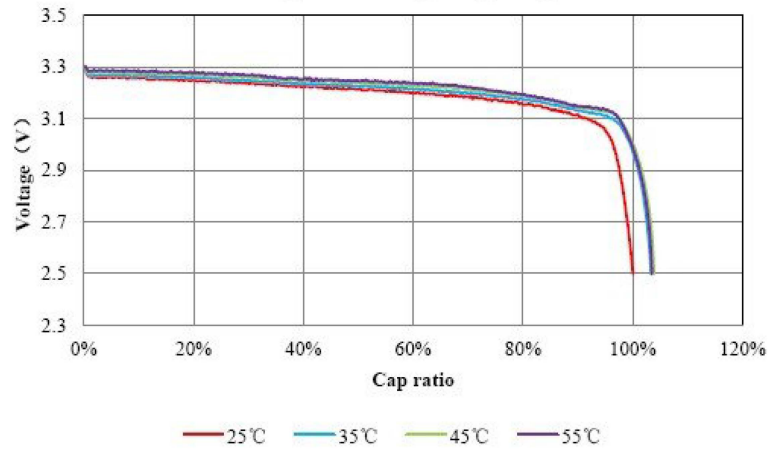
Rate Charge Characteristics @ 25°C



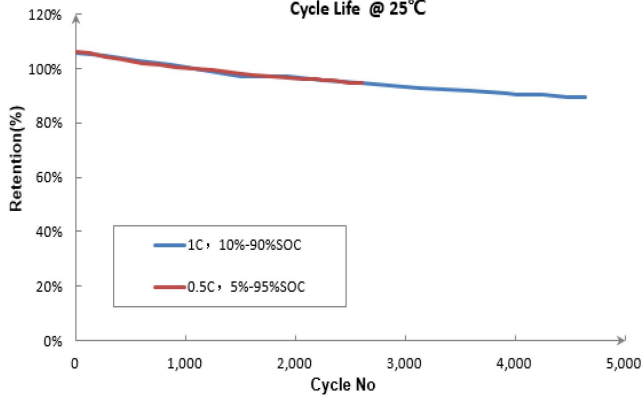
L -Temp. Discharge Capacity Ratio



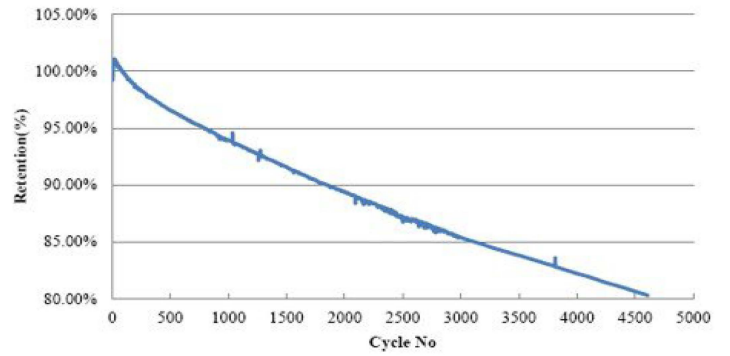
H-Temp. Discharge Capacity Ratio

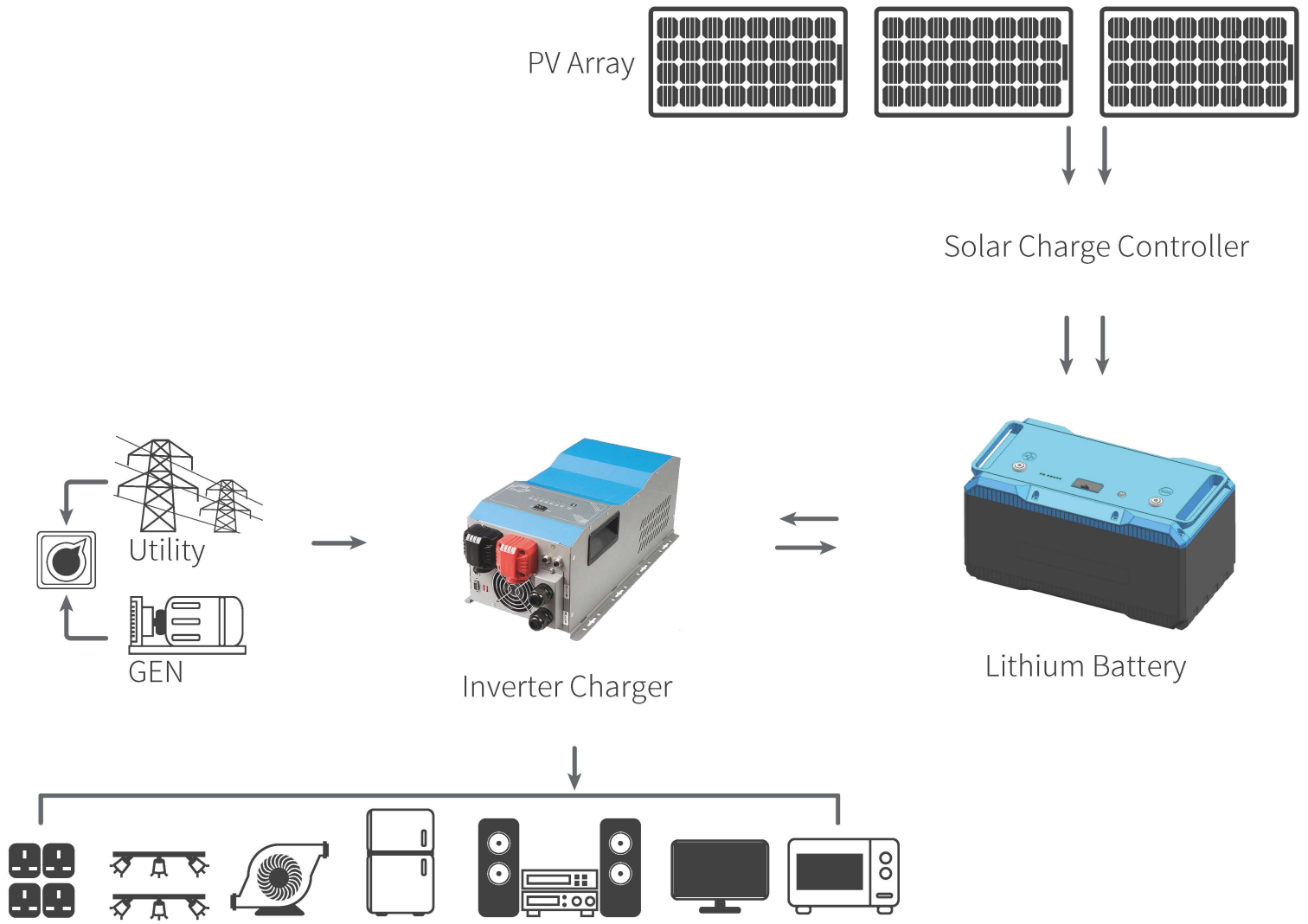


Cycle Life @ 25°C



Cycle Life @ 25°C ( 1 C )





## Cautions

- DO NOT in reverse polarity or short circuit
- DO NOT crush or disassemble.
- DO NOT heat battery or incinerate
- DO NOT immerse in any liquid
- Store at 30~50% SOC. Recharging every 3 months is highly suggested.