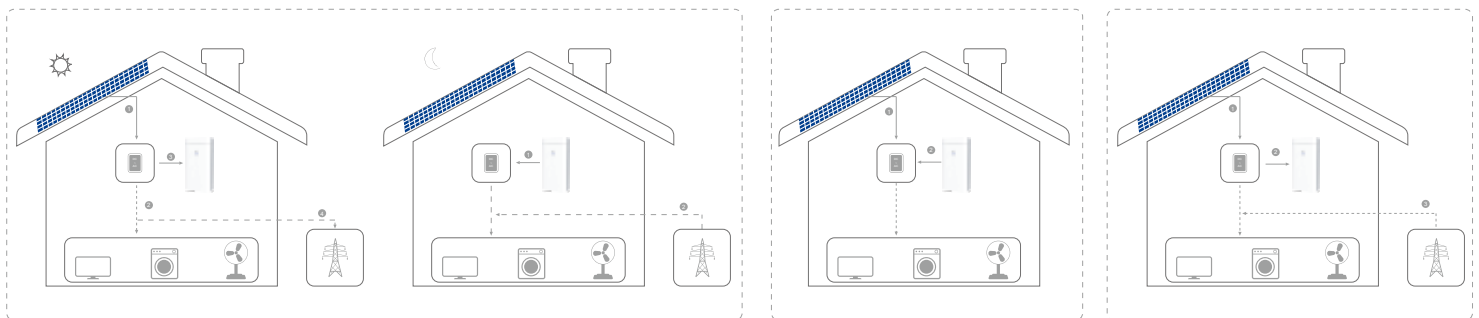


## For residential power back-up use

SYL (Ningbo) Battery Co., Ltd. has been started as a subsidiary company of Risen Energy Co., Ltd. in 2018 with over 100 R&D engineers. SYL focuses on the design, plan, operation and maintenance of the Residential, Commercial, Industrial and Utility ESS.

## Application

—— DC current  
 - - - - AC current



On-grid mode (daytime)

1. PV power generation
2. Supply to load
3. Charge battery
4. Sell to grid

On-grid mode (night)

1. Battery supply to load
2. Grid supply to load

Off-grid mode

1. PV power generation
2. Battery supply to load

UPS mode

1. PV power generation
2. Charge battery
3. Grid supply to load

## TECHNICAL PARAMETERS

Parameters	SH-5.18KWH(NCM)
Total energy (kWh)	5.18
Usable energy (kWh)	4.66
Nominal voltage (V)	51.8
Nominal capacity (Ah)	100
Operation voltage range (V)	42 ~ 58.8
Max.continuous discharge current (A)	50
Max.continuous charge current (A)	30
DOD	90%
Dimensions (W*H*D) (mm)	371.2*764*190
Weight (kg)	45
Protection class	IP65
Installation mode	Sit on ground / Wall bracket
Charge temperature (°C)	0 ~ 45
Discharge temperature (°C)	-10 ~ 50
Communication	CAN / RS485
Cycle life (90% DOD, 25°C)	> 5000 (10 years)
Certificates	IEC62619, IEC62040, CE-EMC, UN38.3, MSDS
Cooling	Natural cooling

Parameters	SH-4.5KWH(LFP)
Total energy (kWh)	4.5
Usable energy (kWh)	4.05
Nominal voltage (V)	51.2
Nominal capacity (Ah)	90
Operation voltage range (V)	46.4 ~ 57.6
Nominal charge current (A)	30
Nominal discharge current (A)	30
Short circuit current (A)	300
Scalability range / mode	Max.5 modules parallel
Dimensions (W*H*D) (mm)	371*645*190
Weight (kg)	47
Enclosure protection rate	IP65
Installation mode	Sit on the ground / Wall mounted
Charge temperature (°C)	0 ~ 45
Discharge temperature (°C)	-20 ~ 55
Communication	CAN / RS485
Cycle life (90% DOD, 25°C)	> 5000 cycles
Certificates	IEC62619, IEC60335, IEC60950, IEC60068, CE-EMC, UN38.3, MSDS
Cooling	Natural cooling
Operation humidity	5% ~ 95%