

Daxieworld



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# Single Phase Solution for Three Phase Residential Sites

Step Up Modern House Energy Supply

## BluE-S Energy Storage System:

- ▶ Higher Efficiency
- ▶ Maximum Battery Usable Capacity
- ▶ Idea for Unbalance Load
- ▶ Suitable for Single/Two/Three phase

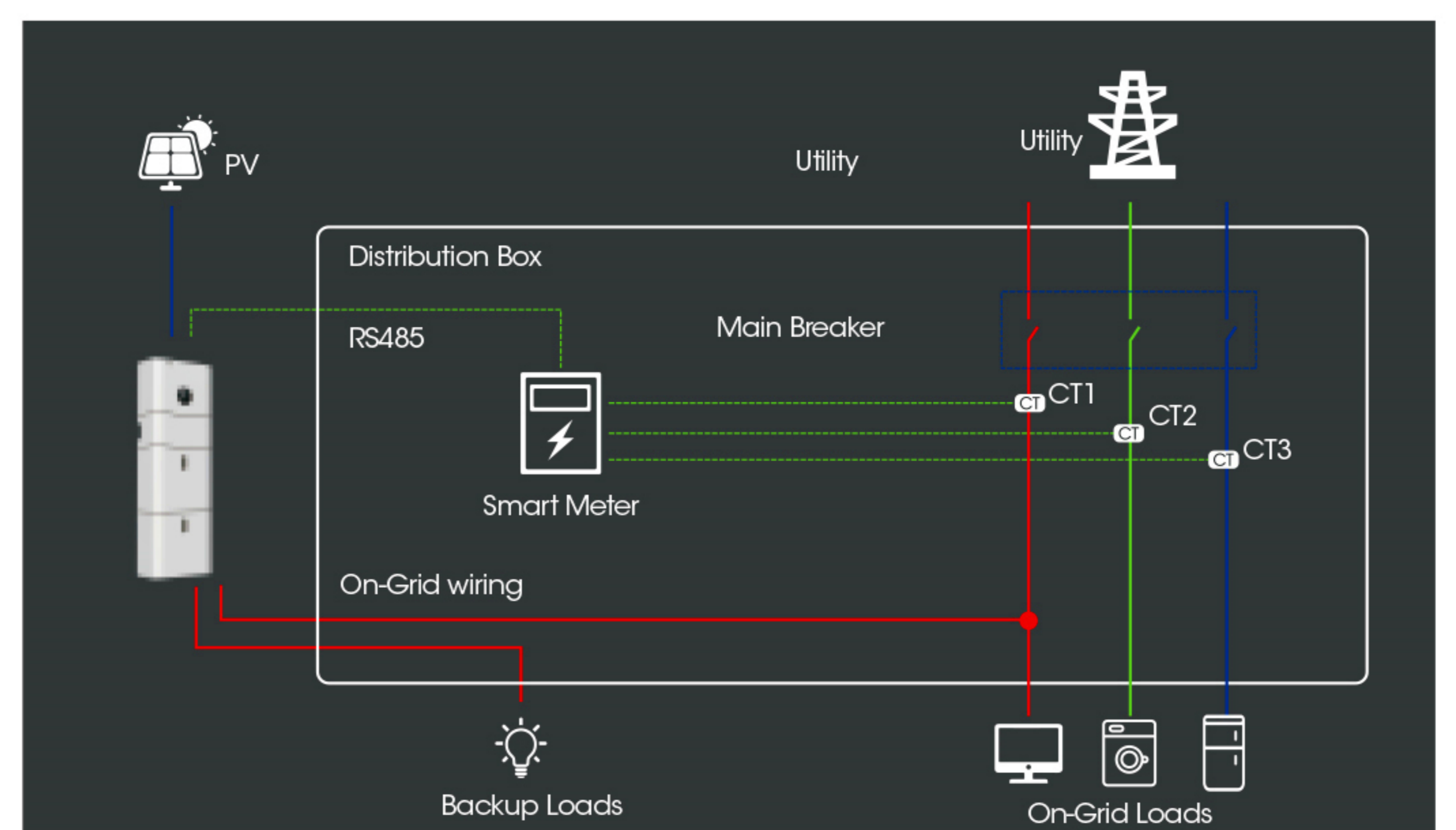
**100% Independent from Grid**

\* The smart meter comes in an optional package.

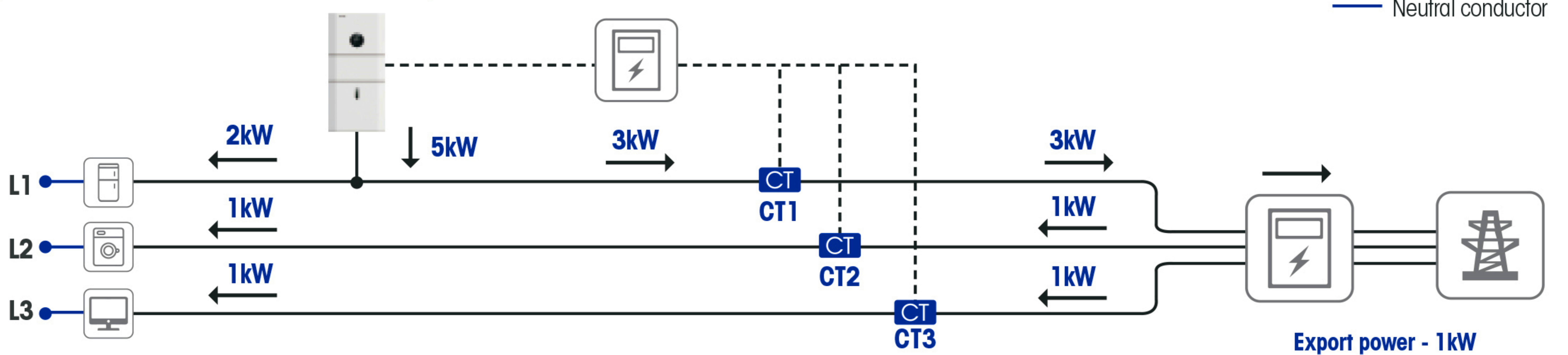


## Residential Storage Solution:

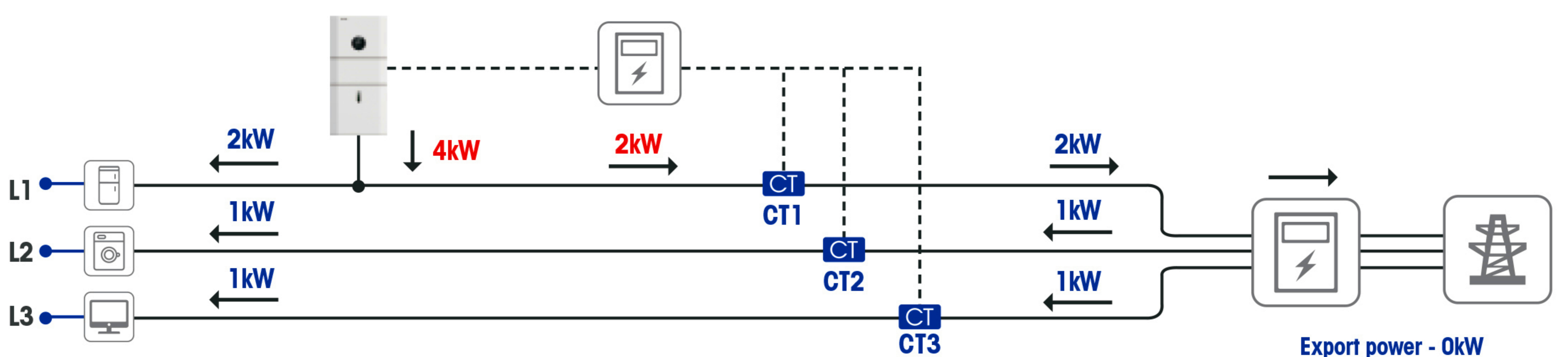
1. The BluE-S single phase inverter is connected to the residential three phase power supply, supplying loads to the connected phase and it also supplies the back-up load when the power is outage.
2. The energy management system will monitor power flow across all three phase via the smart meter.
3. Cooperating with the utility meter, the BluE-S on one phase will offset consumption on the other phases.



## Typical Application:



## Power Limit Solutions:





# BluE-H3/H5 SERIES

## Residential ESS Solution

- ▶ CATL LFP battery inside
- ▶ All in one design
- ▶ High efficiency up to 97.6%
- ▶ IP65 protection
- ▶ String monitoring optional
- ▶ Easy installation
- ▶ Digital controller
- ▶ DC/AC Surge protection
- ▶ Reactive power controller



### Battery Specifications

#### BluE-Pack 5.1

#### BluE-Pack 10.2

#### Electrical

Energy Capacity	5.12kWh		10.24kWh
Battery type		LFP (LiFePO4)	
Depth of Discharge (DoD)		90%	
Rated voltage		51.2V	
Operating Voltage Range		44.8~57.6V	
Internal Resistance		≤ 20 mΩ	
Number of cycles		10000cycles	

#### Operation

Max. Charging Current	50A (0.5C)		100 A (0.5C)
Max. Discharging Current	80 A (0.8C)		100 A (0.5C)
Operating temperature range	0 °C ~+55 °C (Charging)/-20 °C ~+55 °C (DisCharging)		
Storage temperature range	-30 °C ~+60 °C		
Humidity	0% ~ 90%		

#### BMS

Modules Connection	max. 4 batteries in parallel		
Power Consumption	<2 W		
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement		
Communication	CAN and RS-485 compatible		
Ventilation type	Passive and Active Cooling		

#### Physical

Weight (Kg)	59		118
Dimension (W×H×D)mm	540*530*240		540*1060*240
IP Protection	IP65		
Warranty	5 Year Product Warranty, 10 Year Performance Warranty		

#### Certificate

Safety(Cell)	IEC 62619、UL 1973、UN 38.3		
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Hybrid Inverter Model	BluE-S 3680D	BluE-S 5000D
<b>PV String Input</b>		
Max. DC Input Power (W)	4800	6500
Max. DC Input Voltage (V)	580	580
Nominal voltage (V)	400	400
MPPT voltage range	120V-550V	120V-550V
Startup voltage	130V	130V
MPPT voltage range at full load	184~550V	230~550V
Number of MPPT	2	2
No. of Strings per MPPT	1	1
Max. input current per MPPT	13A	13A
Max. short-circuit current per MPPT	16A	16A
<b>AC Output (Grid)</b>		
Nominal AC output power	3680W	4999W
Max. AC apparent power	7360VA (from grid)	7360VA (from grid)
Maximum AC output power	3680W	4999W
Nominal AC voltage	230Vac	230Vac
AC grid frequency range	50 / 60Hz±5Hz	50 / 60Hz±5Hz
Max. output current	16A	22A
Max. input current	32A	32A
Power factor (cosΦ)	0.8leading-0.8lagging	0.8leading-0.8lagging
THDi	<3%	<3%
<b>Battery Input</b>		
Battery Type	LFP (LiFePO4)	LFP (LiFePO4)
Nominal Battery Voltage	51.2V	51.2V
Max. Charging Voltage	57.6V	57.6V
Max. Charging Current	50A	100A
Max. Discharging Current	80A	100A
Battery Capacity	100-400Ah	100-400Ah
Charging Strategy for Li-Ion Battery	Depend on the BMS	Depend on the BMS
<b>AC Output (Backup)</b>		
Max. Output Apparent Power	4000VA	4000VA
Peak Output Apparent Power	6900VA 10sec	6900VA 10sec
Max. Output Current	16A	16A
Nominal Output Voltage	230±0.2%	230±0.2%
Nominal Output Frequency	50/60Hz±0.2%	50/60Hz±0.2%
Output THDv (@Linear Load)	<2% (Linear load) /<2%	<2% (Linear load) /<2%
<b>Efficiency</b>		
Max. PV Efficiency	97.6%	97.6%
Euro. PV efficiency	97.0%	97.0%
Max. Battery to Load Efficiency	94.0%	94.0%
Battery charged by PV Max. Efficiency	98.0%	98.0%
<b>Protection</b>		
DC switch	Bipolar DC Switch (125A/Pole)	Bipolar DC Switch (125A/Pole)
Anti-islanding protection	Yes	Yes
Output over current	Yes	Yes
DC reverse polarity protection	Yes	Yes
String fault Detection	Yes	Yes
AC/DC surge protection	DC Type II;AC Type III	DC Type II;AC Type III
Insulation detection	Yes	Yes
AC short circuit protection	Yes	Yes
<b>General Specifications</b>		
Dimensions W x H x D (mm)	540*640*240	
Weight(kg)	32	
Operating temperature range	0°C~+55°C(Charging)/-20°C~+55°C(DisCharging)	
Noise (dB)	<25	
Cooling type	Natural Convection	
Max. operation altitude	≤2000m	
Max. operation humidity	0~95% (No condensation)	
IP class	IP65	
Topology	Battery Isolation	
Communication	RS485/CAN2.0/WIFI	
Display	LCD/APP	
Certification & Standard	AS/NZS 4777.2; CEI 0-16; IEC/EN 62109-1&2, IEC62040-1; IEC62116;IEC61727; EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4,EN61000-4-16, EN61000-4-18, EN61000-4-29	