

# Low voltage battery

## LR5000



### Best Components

A-grade LFP cell from first-class supplier  
BMS specially developed by Yelon



### Stackable

5.12-40.96kWh (8 modules)



### Safe and Reliable

10-year warranty; 6000 cycles  
Fool-proof design and protection functions



### Easy to Install and Use

Plug and play connection  
Minimum operation needed after first configuration



### Compatible

Work with most of the popular inverters



### Remote Control and Monitor

Check real-time status on APP  
Alert pops up if any problem occurs

### PARAMETERS

Battery Type	LiFePO <sub>4</sub>
Battery Capacity [Ah]	100
Nominal Voltage [V]	51.2
Charging Cut-off Voltage [V]	57.6
Discharging End-of Voltage [V]	46
Recommended C Rate	0.5C
Recommended Charge/Discharge Current [A]	50
Max Charge/Discharge Current [A]	100
Peak Power Charge/Discharge Current [A]	120(15s)

### GENERAL

Net Weight [kg]	41
Dimension[W*D*H] [mm]	442×500×133
Charging Temp. Range [°C]	0~55
Discharging Temp. Range [°C]	-20~55
Communication	CAN/RS485
Cycle Life	> 6000 <sup>[1]</sup>
Protection Level	IP21
Cooling Method	Natural
Altitude [m]	≤4000
Scalability	Up to 8 units in parallel
Compatible Inverters	YELON, GOODWE, GROWATT, DEYE, SMA, VICTRON...
Certification & Safety Standard	CE/UN38.3/IEC62619

<sup>[1]</sup> Test conditions: 0.2C Charging/Discharging, @25°C, 80% DOD

<sup>[2]</sup> Outer casing color of battery can be customized



# High voltage battery

## HR5000



### Best Components

A-grade LFP cell from first-class supplier  
BMS specially developed by Yelon



### Stackable

9.6~24kWh (5 modules)



### Safe and Reliable

10-year warrant; 6000 cycles  
Fool-proof design and protection functions



### Easy to Install and Use

Plug and play connection  
Minimum operation needed after first configuration



### Compatible

Work with most of the popular inverters



### Remote Control and Monitor

Check real-time status on APP  
Alert pops up if any problem occurs

## PARAMETERS

Battery Type	LiFePO <sub>4</sub>			
Number Of Batteries In Series	HR5000-2	HR5000-3	HR5000-4	HR5000-5
Nominal Battery Energy [Kwh]	9.6	14.4	19.2	24
Single Battery Capacity [Ah]	50Ah			
Nominal Voltage [V]	192	288	384	480
Charging Cut-off Voltage [V]	216	324	432	540
Discharging End-of Voltage [V]	168	252	336	420

Recommended Charge/discharge Current [A]	25
Max Charge/Discharge Current [A]	50
Peak Power Charge/Discharge Current [A]	65(20s)

## GENERAL

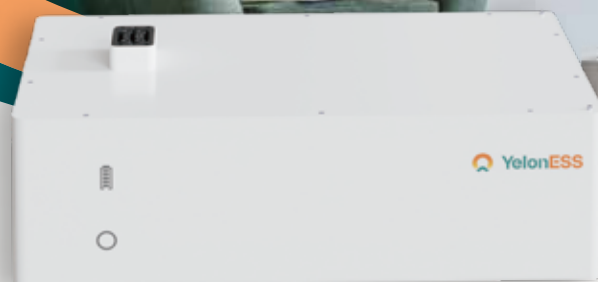
Net Weight (HR5000*1) [kg]	46
Dimension[W*D*H] (HR5000*1) [mm]	442*550*133
Charging Temp. Range [°C]	0~55
Discharging Temp. Range [°C]	-20~55
Communication	CAN/RS485
Cycle Life	> 6000 <sup>[1]</sup>
Protection Level	IP21
Cooling Method	Natural
Altitude [m]	≤4000
Scalability	Up to 5 units in series
Compatible Inverters	YELON, GOODWE, GROWATT, DEYE, SMA, VICTRON...
Certification & Safety Standard	CE/UN38.3/IEC62619

<sup>[1]</sup> Test conditions: 0.2C Charging/Discharging, @25°C, 80% DOD

<sup>[2]</sup> Outer casing color of battery can be customized

# Low voltage battery

## LT5000



### Best Components

A-grade LFP cell from first-class supplier  
BMS specially developed by Yelon



### Stackable

5.12-40.96kWh (8 modules)



### Safe and Reliable

10-year warranty; 6000 cycles  
Fool-proof design and protection functions



### Easy to Install and Use

Plug and play connection  
Minimum operation needed after first configuration



### Compatible

Work with most of the popular inverters



### Remote Control and Monitor

Check real-time status on APP  
Alert pops up if any problem occurs

### PARAMETERS

Battery Type	LiFePO <sub>4</sub>
Battery Capacity [Ah]	100
Nominal Voltage [V]	51.2
Charging Cut-off Voltage [V]	57.6
Discharging End-of Voltage [V]	44.8
Recommended C Rate	0.5C
Recommended Charge/Discharge Current [A]	50
Max Charge/Discharge Current [A]	100
Peak Power Charge/Discharge Current [A]	200(15s)

### GENERAL

Net Weight [kg]	45
Dimension[W*D*H] [mm]	600x400x170
Charging Temp. Range [°C]	0~55
Discharging Temp. Range [°C]	-20~55
Communication	CAN/RS485
Cycle Life	> 6000 <sup>[1]</sup>
Protection Level	IP21
Cooling Method	Natural
Altitude [m]	≤4000
Scalability	Up to 8 units in parallel
Compatible Inverters	YELON, GOODWE, GROWATT, DEYE, SMA, VICTRON...
Certification & Safety Standard	CE/UN38.3/IEC62619

<sup>[1]</sup> Test conditions: 0.2C Charging/Discharging, @25°C, 80% DOD

<sup>[2]</sup> Outer casing color of battery can be customized



# High voltage battery

## HT5000



### Best Components

A-grade LFP cell from first-class supplier  
BMS specially developed by Yelon



### Stackable

9.6~19.2kWh (4 modules)



### Safe and Reliable

10-year warranty; 6000 cycles  
Fool-proof design and protection functions



### Easy to Install and Use

Plug and play connection  
Minimum operation needed after first configuration



### Compatible

Work with most of the popular inverters



### Remote Control and Monitor

Check real-time status on APP  
Alert pops up if any problem occurs

### PARAMETERS

Battery Type	LiFePO <sub>4</sub>		
Number Of Batteries In Series	HT5000-2	HT5000-3	HT5000-4
Nominal Battery Energy [kWh]	9.6	14.4	19.2
Single Battery Capacity [Ah]	50Ah		
Nominal Voltage [V]	192	288	384
Charging Cut-off Voltage [V]	216	324	432
Discharging End-of Voltage [V]	168	252	336
Recommended Charge/Discharge Current [A]	25		
Max Charge/Discharge Current [A]	50		
Peak Power Charge/Discharge Current [A]	65(20s)		

### GENERAL

Net Weight [kg]	58(unit)
Dimension[W*D*H] [mm]	600X250X430(unit)
Charging Temp. Range [°C]	0~55
Discharging Temp. Range [°C]	-20~55
Communication	CAN/RS485
Cycle Life	> 6000 <sup>[1]</sup>
Protection Level	IP65
Cooling Method	Natural
Altitude [m]	≤4000
Scalability	Up to 4 units in series
Compatible Inverters	YELON, GOODWE, GROWATT, DEYE, SMA, VICTRON...
Certification & Safety Standard	CE/UN38.3/IEC62619

<sup>[1]</sup> Test conditions: 0.2C Charging/Discharging, @25°C, 80% DOD

<sup>[2]</sup> Outer casing color of battery can be customized

# High voltage battery

## HS5000



### Best Components

A-grade LFP cell from first-class supplier  
BMS specially developed by Yelon



### Stackable

9.6~24kWh (5modules)



### Safe and Reliable

10-year warranty; 6000 cycles  
Fool-proof design and protection functions



### Easy to Install and Use

Plug and play connection  
Minimum operation needed after first configuration



### Compatible

Work with most of the popular inverters



### Remote Control and Monitor

Check real-time status on APP  
Alert pops up if any problem occurs

## PARAMETERS

Battery Type	LiFePO <sub>4</sub>			
Number Of Batteries In Series	HS5000-2	HS5000-3	HS5000-4	HS5000-5
Nominal Battery Energy [kWh]	9.6	14.4	19.2	24
Single Battery Capacity [Ah]	50Ah			
Nominal Voltage [V]	192	288	384	480
Charging Cut-off Voltage [V]	216	324	432	540
Discharging End-of Voltage [V]	168	252	336	420
Recommended Charge/Discharge Current [A]	25			
Max Charge/Discharge Current [A]	50			
Peak Power Charge/Discharge Current [A]	65(20s)			

## GENERAL

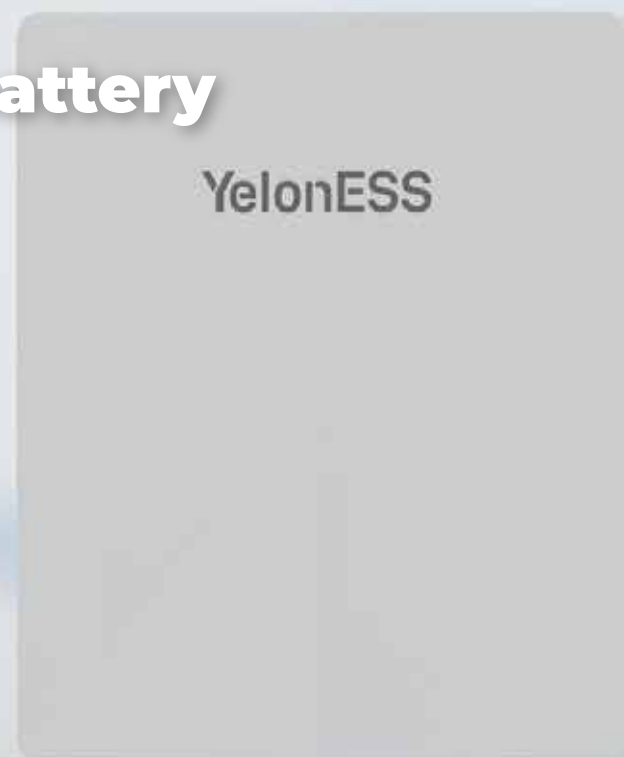
Net Weight [kg]	56(unit)
Dimension[W*D*H] [mm]	620X400X210(unit)
Charging Temp. Range [°C]	0~55
Discharging Temp. Range [°C]	-20~55
Communication	CAN/RS485
Cycle Life	> 6000 <sup>[1]</sup>
Protection Level	IP65
Cooling Method	Natural
Altitude [m]	≤4000
Scalability	Up to 5 units in series
Compatible Inverters	YELON, GOODWE, GROWATT, DEYE, SMA, VICTRON...
Certification & Safety Standard	CE/UN38.3/IEC62619

<sup>[1]</sup> Test conditions: 0.2C Charging/Discharging, @25°C, 80% DOD

<sup>[2]</sup> Outer casing color of battery can be customized

# Low voltage battery

## LW5000



### Best Components

A-grade LFP cell from first-class supplier  
BMS specially developed by Yelon



### Expandable

5.12-40.96kWh (8 modules)



### Safe and Reliable

10-year warranty; 6000 cycles  
Fool-proof design and protection functions



### Easy to Install and Use

Plug-in connection  
Minimum operation needed after first configuration



### Compatible

Work with most of the popular inverters



### Remote Control and Monitor

Check real-time status on APP  
Alert pops up if any problem occurs

## PARAMETERS

Battery Type	LiFePO <sub>4</sub>
Battery Capacity [Ah]	100
Nominal Voltage [V]	51.2
Charging Cut-off Voltage [V]	57.6
Discharging End-of Voltage [V]	44.8
Recommended C Rate	0.5C
Recommended Charge/Discharge Current [A]	50
Max Charge/Discharge Current [A]	100
Peak Power Charge/Discharge Current [A]	200(15s)

## GENERAL

Net Weight [kg]	45
Dimension[W*D*H] [mm]	500×185×560
Charging Temp. Range [°C]	0~55
Discharging Temp. Range [°C]	-20~55
Communication	CAN/RS485
Cycle Life	> 6000 <sup>[1]</sup>
Protection Level	IP65
Cooling Method	Natural
Altitude [m]	≤4000
Scalability	Up to 8 units in parallel
Compatible Inverters	YELON, GOODWE, GROWATT, DEYE, SMA, VICTRON...
Certification & Safety Standard	CE/UN38.3/IEC62619

<sup>[1]</sup> Test conditions: 0.2C Charging/Discharging, @25°C, 80% DOD

<sup>[2]</sup> Outer casing color of battery can be customized



# High voltage battery

## HW5000



\*High voltage controller is included



### Best Components

A-grade LFP cell from first-class supplier  
BMS specially developed by Yelon



### Expandable

4.8-24kWh (5 modules)



### Safe and Reliable

10-year warranty; 6000 cycles  
Fool-proof design and protection functions



### Easy to Install and Use

Plug and play connection  
Minimum operation needed after first configuration



### Compatible

Work with most of the popular inverters



### Remote Control and Monitor

Check real-time status on APP  
Alert pops up if any problem occurs

## PARAMETERS

Battery Type	LiFePO <sub>4</sub>			
Number Of Batteries In Series	HW5000-2	HW5000-3	HW5000-4	HW5000-5
Nominal Battery Energy [kWh]	9.6	14.4	19.2	24
Single Battery Capacity [Ah]	50Ah			
Nominal Voltage [V]	192	288	384	480
Charging Cut-off Voltage [V]	216	324	432	540
Discharging End-of Voltage [V]	168	252	336	420

Recommended Charge/Discharge Current [A]	25
Max Charge/Discharge Current [A]	50
Peak Power Charge/Discharge Current [A]	65(20s)

## GENERAL

Net Weight [kg]	52
Dimension[W*D*H] [mm]	480*170*600 / 480*170*720(high voltage controller is included)
Charging Temp. Range [°C]	0~55
Discharging Temp. Range [°C]	-20~55
Communication	CAN/RS485
Cycle Life	> 6000 <sup>[1]</sup>
Protection Level	IP65
Cooling Method	Natural
Altitude [m]	≤4000
Scalability	Up to 5 units in series
Compatible Inverters	YELON, GOODWE, GROWATT, DEYE, SMA, VICTRON...
Certification & Safety Standard	CE/UN38.3/IEC62619

<sup>[1]</sup> Test conditions: 0.2C Charging/Discharging, @25°C, 80% DOD

<sup>[2]</sup> Outer casing color of battery can be customized

# Single Phase Hybrid Inverter



## SAFE & RELIABLE

- Passed IEC/EN 62109-1/-2, IEC/EN 62477-1, IEC/EN 61000-6-1/-6-3 test certification
- Passed South Africa: NRS097-2-1:2017 test certification

## FRIENDLY & FLEXIBLE

- Support multi-parallel connection
- Compatible with lead-acid and lithium-ion battery

## ECONOMICAL & SMART

- Support intelligent EMS management function
- Support on/off-grid automatic switching function to ensure uninterrupted power when important loads are off-grid

PARAMETERS	HV3K-1L	HV3K6-1L	HV4K-1L	HV4K6-1L	HV5K-1L	HV6K-1L
PV Input						
Max power	4.6kW	4.6kW	6kW	6kW	7kW	7kW
Max DC Voltage			550V			
MPPT Voltage Range			125-500 V			
Max Input Current Of Single MPPT(A)			14A			
MPPT Tracker/Strings			2/1			
AC Output						
Rated Output Power	3 kVA	3.68 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Max Output Current	13A	16A	17.4A	20A	21.7A	26A
Grid Voltage/Range	230V/176-270 V					
Frequency	50/60 Hz					
Power Factor	0.8lagging-0.8leading					
THDi	<3%					
AC Output Topology	L+N+PE					
Battery						
Battery Voltage Range	40 ~ 58 V					
Max Charge/Discharge Current	95/62.2 A	95/75 A	95/83.3 A	95/95.8 A	95/104.2 A	95/110 A
Battery Type	Lithium/Lead-acid					
Communication Interface	CAN/RS485					
EPS Output						
Rated Power	3 kVA	3.68 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Rated Output Voltage	230 V					
Rated Output Current	13A	16A	17.4A	20A	21.7A	26A
Rated Frequency	50 /60 Hz					
Automatic Switching Time	<20ms					
THDu	<2%					
Overload Capacity	110%, 30S/120%, 10S/150%, 0.02S					
General Data						
Battery Charge /Discharge Efficiency	95%					
DC Max Efficiency	97.6%					
European Efficiency	97.0%					
MPPT Efficiency	99.9%					
Ingress Protection	IP65					
Noise Emission	<35 dB					
Operation Temperature	-25°C ~ 60°C					
Cooling Method	Natural					
Relative Humidity	0 ~95% (non-condensing)					
Altitude [m]	≤2000					
Isolation Transformer	No					
Self-consumption	< 3W					
Installation	Wall-Mounted					
Display And Communication						
Display	LCD					
Interface	RS485/ CAN/DRM/ Wi-fi (opt.)/ 4G(opt.)					
Safety standard	IEC/EN62109-1/-2, IEC/EN62477-1					
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3					
On-grid	South Africa: NRS097-2-1:2017 UK: G98,G99					

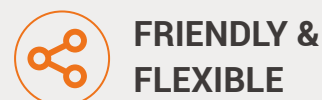


# Three Phase Hybrid Inverter



## SAFE & RELIABLE

- Passed IEC/EN 62109-1/-2, IEC/EN 62477-1, IEC/EN 61000-6-1/-6-3 test certification
- Passed European grid connection: EN50549-1 test certification
- Passed German grid connection: VDE4105/0124 test certification
- Passed UK grid connection: G99 test certification
- Passed South Africa: NRS097-2-1:2017 test certification



## FRIENDLY & FLEXIBLE

- Support multi-parallel connection
- Compatible with lead-acid and lithium-ion battery



## ECONOMICAL & SMART

- Support intelligent EMS management function
- Support on/off-grid automatic switching function to ensure uninterrupted power when important loads are off-grid

PARAMETERS	HV8K-3H	HV10K-3H	HV12K-3H
PV Input			
Max power	12kW	15kW	18kW
Max DC Voltage	1000V		
MPPT Voltage Range	180-850V		
Max Input Current Of Single MPPT(A)	13A		
MPPT Tracker/Strings	2/1		
AC Output			
Rated Output Power	8 kVA	10 kVA	12 kVA
Max Output Current	12.7A	15.9A	19.1A
Grid Voltage/Range	400 V/360-440 V		
Frequency	50/60 Hz		
Power Factor	0.8lagging-0.8leading		
THDi	<3%		
AC Output Topology	3W+N+PE		
Battery			
Battery Voltage Range	125~600 V		
Max Charging Voltage	600 V		
Full Battery Voltage	250V	300V	350V
Rated Charge/Discharge Current	40A	40A	40A
Battery Type	Lithium/Lead-acid		
Communication Interface	CAN/RS485		
EPS Output			
Rated Power	8.8 kVA	11 kVA	13.2 kVA
Rated Output Voltage	400 V		
Rated Output Current	12.7 A	15.9 A	19.1 A
Rated Frequency	50 /60 Hz		
Automatic Switching Time	<20ms		
THDu	<2%		
Overload Capacity	110%, 30S/120%, 10S/150%, 0.02S		
General Data			
Battery Charge/Discharge Efficiency	96.6%	96.7%	96.8%
DC Max Efficiency	97.9%	98.2%	98.2%
European Efficiency	97.2%	99.5%	97.5%
MPPT Efficiency	99.5%	99.5%	99.5%
Ingress Protection	IP65		
Noise Emission	<35 dB		
Operation Temperature	-25℃ ~ 60℃		
Cooling Method	Natural		
Relative Humidity	0 ~95% (non-condensing)		
Altitude [m]	≤2000		
Isolation Transformer	No		
Self-consumption	< 3W		
Installation	Wall-Mounted		
Display And Communication			
Display	LCD		
Interface	RS485/ CAN/DRM/ Wi-fi (opt.)/ 4G(opt.)		
Safety standard	IEC/EN62109-1/-2, IEC/EN62477-1		
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3		
On-grid	Europe: EN50549-1	Germany: VDE4105/0124 UK: G99	South Africa: NRS097-2-1:2017

# ALL-IN-ONE ESS

## NICE-3HT



### IP65 Rated

Designed for both indoor and outdoor application



### Integrated Design

Battery and inverter are pre-configured for best compatibility



### Safe and Reliable

Brand new A-Grade LFP cell  
Various automatic protection functions



### Easy to Install

Plug-and-Play  
save onsite installation time



### Remote Control

Remote monitor of operation status  
Alert pops up on APP if any problem occurs

PARAMETERS	NICE-3HT-8.0	NICE-3HT-10.0	NICE-3HT-12.0
PV Input			
Max Power	12kW	15kW	18kW
Max DC Voltage	1000V		
MPPT Voltage Range	180-850V		
Max Input Current Of Single MPPT	13A		
MPPT Numbers/NO.of PV strings per MPPT	2/1		
AC Output			
Rated Output Power	8 kW	10 kW	12 kW
Max Output Current	12.7A	15.9A	19.1A
Grid Voltage/Range	400 V/360-440 V		
Frequency	50/60 Hz		
Power Factor	0.8lagging-0.8leading		
THDi	<3%		
AC Output Topology	3W+N+PE		
Battery			
Battery Type	Lithium-ion		
Battery Voltage Range	160~600 V		
Max Charge/Discharge Current	50 A/50 A	50 A/50 A	50 A/50 A
Communication Interface	CAN/RS485		
EPS Output			
Rated Output Power	8 kVA	10 kVA	12 kVA
Rated Output Voltage	400 V		
Max Output Current	12.7 A	15.9 A	19.1 A
Rated Frequency	50 /60 Hz		
Automatic Switching Time	<20ms		
THDu	<2%		
Overload Capacity	110%, 30S/120%, 10S/150%, 0.02S		
General Data			
Size(W*H*D)	620*(910+N <sup>①</sup> )*210)*400(N=1~5) mm		
Weight	33+N*55 kg		
Max Battery Charge/Discharge Efficiency	97.5%	97.5%	97.6%
European Efficiency	97.2%	97.5%	97.5%
MPPT Efficiency	99.5%	99.5%	99.5%
Ingress Protection	IP65		
Noise Emission	<35 dB		
Operation Temperature	-25℃ ~ 60℃		
Cooling Method	Natural		
Relative Humidity	0 ~95% (non-condensing)		
Altitude	2000m(derating about 2000m)		
Isolation Transformer	No		
Self-consumption	< 3W		
Installation	Floor-Mounted		
Display And Communication			
Display	LCD		
Interface	RS485/ CAN/DRM/ Wi-fi (opt.)/ 4G(opt.)		
Safety standard	IEC/EN62109-1/-2, IEC/EN62477-1		
EMC	IEC/EN 61000-6-1/-2/-3/-4,3-2,3-3,11,3-12		
On-grid	EN50549-1,VDE4105/0124,CEI 0-21		

[1] Number of battery modules.

# ALL-IN-ONE ESS

## NICE-3HS



### IP65 Rated

Designed for both indoor and outdoor application



### Integrated Design

Battery and inverter are pre-configured for best compatibility



### Safe and Reliable

Brand new A-Grade LFP cell  
Various automatic protection functions



### Easy to Install

Plug-and-Play  
save onsite installation time



### Remote Control

Remote monitor of operation status  
Alert pops up on APP if any problem occurs

PARAMETERS	NICE-3HS-8.0	NICE-3HS-10.0	NICE-3HS-12.0
PV Input			
Max Power	12kW	15kW	18kW
Max DC Voltage	1000V		
MPPT Voltage Range	180-850V		
Max Input Current Of Single MPPT	13A		
MPPT Numbers/NO.of PV strings per MPPT	2/1		
AC Output			
Rated Output Power	8 kW	10 kW	12 kW
Max Output Current	12.7A	15.9A	19.1A
Grid Voltage/Range	400 V/360-440 V		
Frequency	50/60 Hz		
Power Factor	0.8lagging-0.8leading		
THDi	<3%		
AC Output Topology	3W+N+PE		
Battery			
Battery Type	Lithium-ion		
Battery Voltage Range	160~600 V		
Max Charge/Discharge Current	50 A/50 A	50 A/50 A	50 A/50 A
Communication Interface	CAN/RS485		
EPS Output			
Rated Output Power	8 kVA	10 kVA	12 kVA
Rated Output Voltage	400 V		
Max Output Current	12.7 A	15.9 A	19.1 A
Rated Frequency	50 /60 Hz		
Automatic Switching Time	<20ms		
THDu	<2%		
Overload Capacity	110%, 30S/120%, 10S/150%, 0.02S		
General Data			
Size(W*H*D)	620*(910+N <sup>[1]</sup> *210)*400(N=1~5) mm		
Weight	33+N*55 kg		
Max Battery Charge/Discharge Efficiency	97.5%	97.5%	97.6%
European Efficiency	97.2%	97.5%	97.5%
MPPT Efficiency	99.5%	99.5%	99.5%
Ingress Protection	IP65		
Noise Emission	<35 dB		
Operation Temperature	-25℃ ~ 60℃		
Cooling Method	Natural		
Relative Humidity	0 ~95% (non-condensing)		
Altitude	2000m(derating about 2000m)		
Isolation Transformer	No		
Self-consumption	< 3W		
Installation	Floor-Mounted		
Display And Communication			
Display	LCD		
Interface	RS485/ CAN/DRM/ Wi-fi (opt.)/ 4G(opt.)		
Safety standard	IEC/EN62109-1/-2, IEC/EN62477-1		
EMC	IEC/EN 61000-6-1/-2/-3/-4,3-2,3-3,3-11,3-12		
On-grid	EN50549-1,VDE4105/0124,CEI 0-21		

[1] Number of battery modules.