

# **Yelon**ESS

# Jiangsu Daybright Intelligent Energy Co., Ltd.

Professional Energy Solution Provider

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Jiangsu Daybright Intelligent Energy, Co., Ltd.

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www.yeloness.com

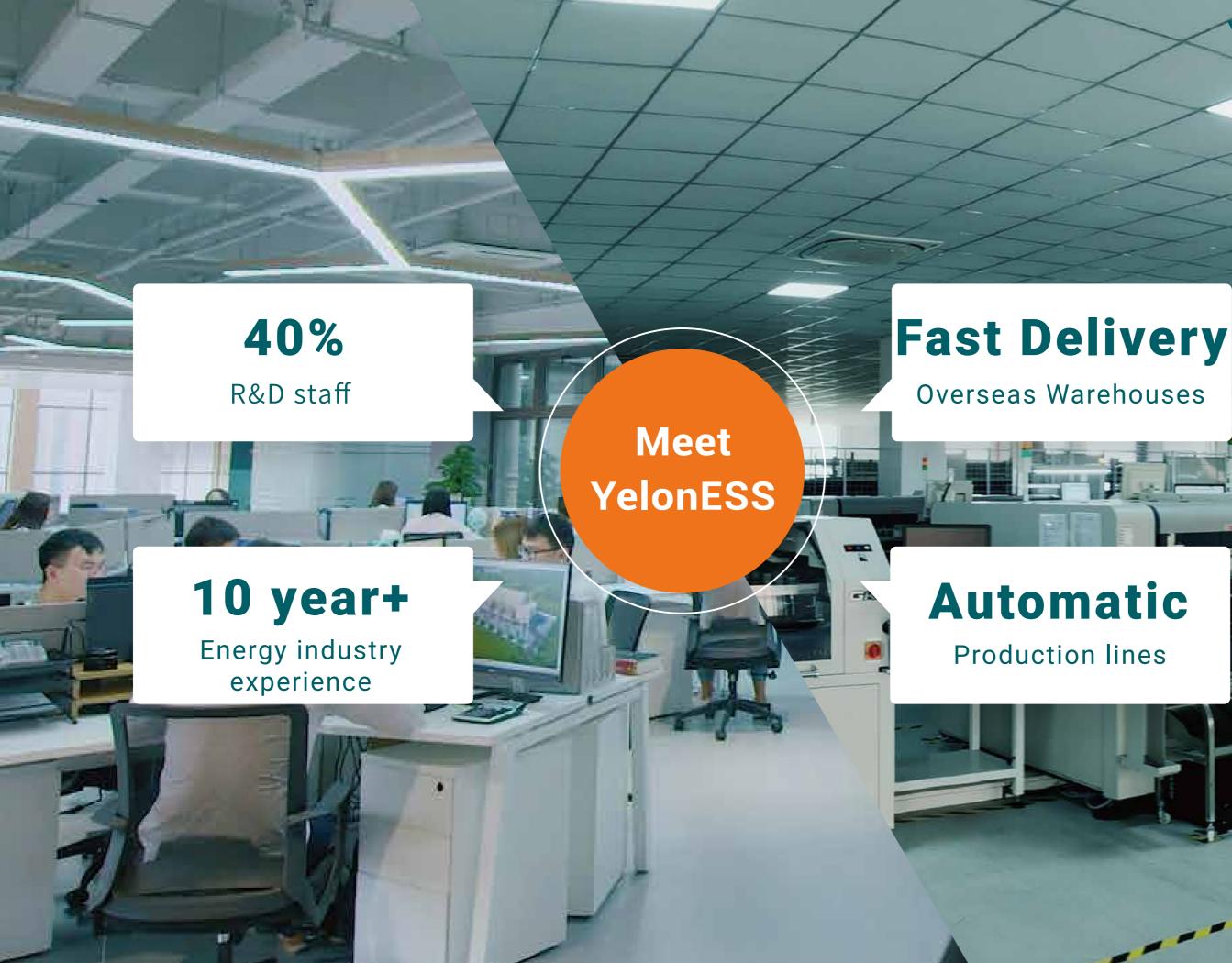


Jiangsu Daybright Intelligent Energy Co., Ltd., a subsidiary company of the public listed company Jiangsu Daybright Intelligent Electric Co., Ltd.(SZ300670), has launched the brand YelonESS for providing energy storage system, including residential/industrial/commercial energy storage batteries, inverters, all-in-one storage system and related software, management system and APP.

YelonESS has obtained safety, quality and transportation certifications to ensure the products meet the requirement of various countries.

With global distribution channels, YelonESS is serving domestic clients as well as clients in Europe, South America, Africa and Oceania. In addition to products, YelonESS features timely pre-sales and after-sales service so that every client can enjoy the free and clean renewable energy in an easy and cost-effective way.







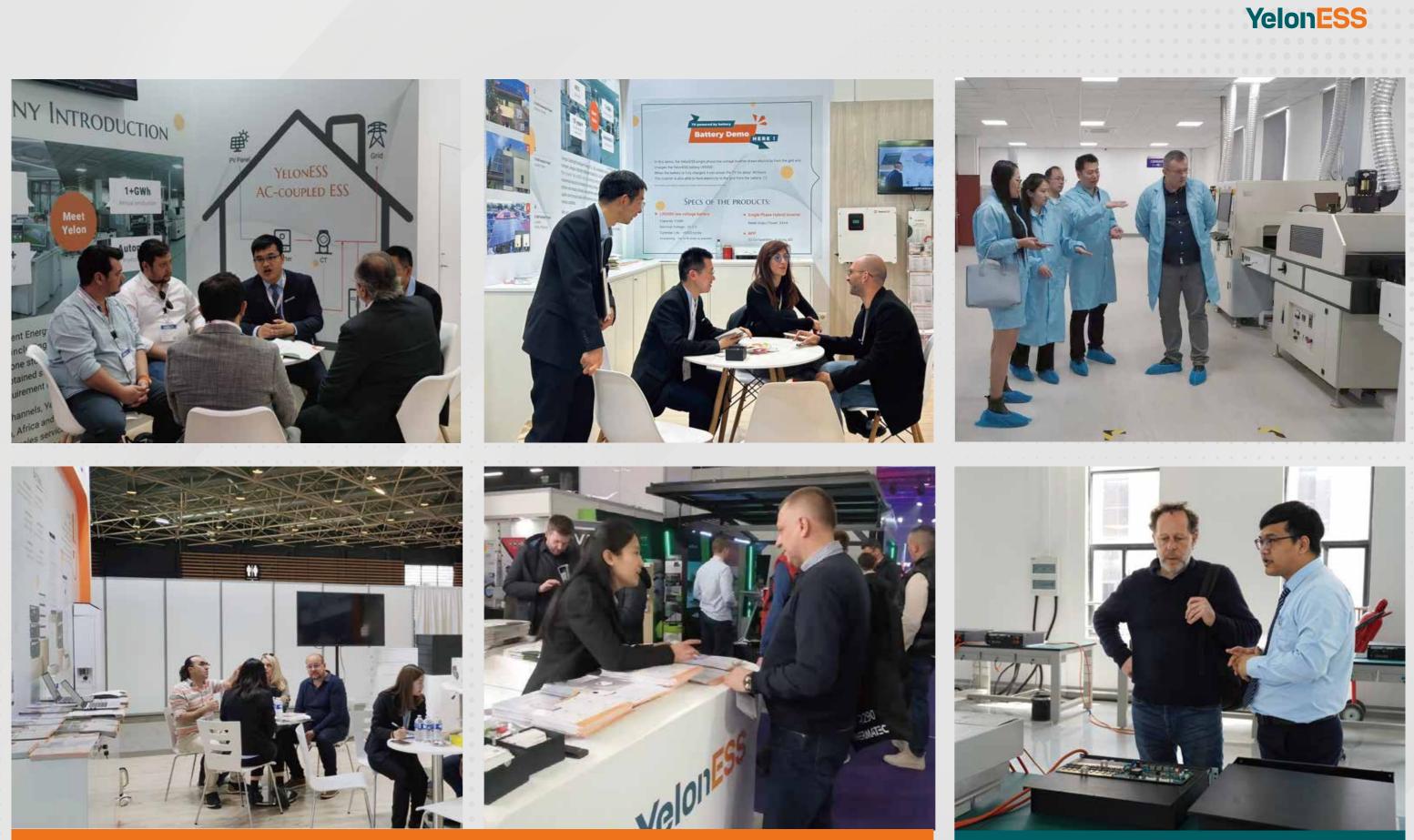


PV System on the Roof of the Company

Brand & Product Showroom



R&D Team



# International New Energy Shows



## Factory Inspection Tour



## Charge and Discharge Testing



## **Professional Testing Equipment**





## **Battery Cell Production**





## **Battery Cell Production**



## **Battery Pack Production Line**

#### **Yelon**ESS



## SMT Workshop

# **Company Qualification**







# **Product Certificates**

YelonESS batteries have been granted IEC62619,MSDS, CE, UN38.3. Inverters have obtained on-grid certificate for many countries.

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#### **Best Components**

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

#### Safe and Reliable

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



Compatible

Work with most of the popular inverters

Stackable

5.12-40.96kWh (8 modules)

# Easy to Install and Use

Plug and play connection Minimum operation needed after first configuration

#### **Remote Control and Monitor**

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

PERFORMANCE
Battery Type
Battery Capacity [Ah]
Nominal Voltage [V]
Charging Cut-off Voltage [V]
Discharging End-of Voltage [V]
Recommended C Rate
Recommended Charge/Discharge Current [
Max Charge/Discharge Current [A]
Peak Power Charge/Discharge Current [A]
GENERAL INFO
Net Weight [kg]
Dimension[W*D*H] [mm]
Charging Temp. Range [°C]
Discharging Temp. Range [°C]
Communication
Cycle Life
Protection Level
Protection Level Cooling Method
Cooling Method

#### Certification & Safety Standard

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

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

## **Yelon**ESS

LiFePO <sub>4</sub>
100
51.2
57.6
46
0.5C
50
100
120(15s)
41
442×500×133
0~50
-15~50
CAN/RS485
> 6000 <sup>[1]</sup>
IP21
Natural
≤4000
Up to 8 units in parallel

YELON, GOODWE, GROWATT, DEYE, SMA, VICTRON...

CE/UN38.3/IEC62619







# **YelonESS** Low voltage battery **LW5000**



10 m ----

#### **Best Components**

A-grade LFP cell from first-class supplier Optional: BYD cells or EVE cells BMS specially developed by Yelon

#### Safe and Reliable

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



#### Compatible Work with most of the popular inverters

Expandable

\*\*\*

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5.12-81.92kWh (16 modules)

# Easy to Install and Use

Plug-in connection Minimum operation needed after first configuration



#### **Remote Control and Monitor**

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

PERFORMANCE
Battery Type
Battery Capacity [Ah]
Nominal Voltage [V]
Charging Cut-off Voltage [V]
Discharging End-of Voltage [V]
Recommended C Rate
Recommended Charge/Discharge Current [A]
Max Charge/Discharge Current [A]
Peak Power Charge/Discharge Current [A]
GENERAL INFO
GENERAL INFO Net Weight [kg]
Net Weight [kg]
Net Weight [kg] Dimension[W*D*H] [mm]
Net Weight [kg] Dimension[W*D*H] [mm] Charging Temp. Range [°C]
Net Weight [kg]Dimension[W*D*H] [mm]Charging Temp. Range [°C]Discharging Temp. Range [°C]
Net Weight [kg]Dimension[W*D*H] [mm]Charging Temp. Range [°C]Discharging Temp. Range [°C]Communication
Net Weight [kg]Dimension[W*D*H] [mm]Charging Temp. Range [°C]Discharging Temp. Range [°C]CommunicationCycle Life
Net Weight [kg]Dimension[W*D*H] [mm]Charging Temp. Range [°C]Discharging Temp. Range [°C]CommunicationCycle LifeProtection Level

Scalability

**Compatible Inverters** 

#### Certification & Safety Standard

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

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

## **YelonESS**

LiFePO₄
100
51.2
57.6
46
0.5C
50
100
120(15s)
45±1
600x142x430
0~50
-15~50
CAN/RS485
> 6000 <sup>[1]</sup>
IP65
Natural
≤4000
Up to 16 units in parallel

YELON, GOODWE, GROWATT, DEYE, SMA, VICTRON...

CE/UN38.3/IEC62619







## **High voltage battery** HT5000

*felon*E



#### **Best Components**

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

#### Safe and Reliable

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



Compatible

Work with most of the popular inverters

Stackable

4.8~14.4kWh (3 modules)

# Easy to Install and Use

Plug and play connection Minimum operation needed after first configuration

#### **Remote Control and Monitor**

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

#### PERFORMANCE

Battery Type					
Number Of Batteries In Series	HT5000-				
Nominal Battery Energy [kWh]	4.8				
Single Battery Capacity [Ah]					
Nominal Voltage [V]	96				
Charging Cut-off Voltage [V]	108				
Discharging End-of Voltage [V]	84				
Recommended Charge/Discharge Cu	urrent [A]				
Max Charge/Discharge Current [A]					
GENERAL INFO					
Net Weight [kg]					
Dimension [W*D*H] [mm]					
CT0500 Net Weight [kg]					
CT0500 Dimension[W*D*H] [mm]					
Charging Temp. Range [°C]					
Discharging Temp. Range [°C]					
Communication					
Cycle Life					
Protection Level					
Cooling Method					
Altitude [m]					
Scalability					
Compatible Inverters	YEL				
Certification & Safety Standard					

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

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

### **YelonESS**

LiFePO₄	
HT5000-2	HT5000-3
9.6	14.4
50Ah	
192	288
216	324
168	252
25	

Charge: 45A; Discharge: 50A

60(unit)

600X250X430(unit)

15.2

600X250X282

0~50

-15~50

CAN/RS485

> 6000 [1]

IP65

Natural

≤2000

Up to 3 units in series

ON, GOODWE, GROWATT, DEYE, SMA, VICTRON...

CE/UN38.3/IEC62619









Fool-proof design and protection functions



Compatible Work with most of the popular inverters Minimum operation needed after first configuration

1

#### **Remote Control and Monitor**

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

#### DEDEODMANOE

PERFORMANCE							
Battery Type			LiFe	PO4			
Number Of Batteries In Series	HS5000-1	HS5000-2	HS5000-3	HS5000-4	HS5000-5	HS5000-6	
Nominal Battery Energy [kWh]	4.8	9.6	14.4	19.2	24	28.8	
Single Battery Capacity [Ah]			50	Ah			
Nominal Voltage [V]	96	192	288	384	480	576	
Charging Cut-off Voltage [V]	108	216	324	432	540	648	
Discharging End-of Voltage [V]	84	168	252	336	420	504	
Recommended Charge/Discharg	e Current [A]		2	5			
Max Charge/Discharge Current [A	A]		Charge: 45A; [	Discharge: 50A	ł		
GENERAL INFO							
Net Weight [kg]			56(	unit)			
Dimension[W*D*H] [mm]		620X400X210(unit)					
CS0500 Net Weight [kg]		17.6					
CS0500 Dimension[W*D*H] [mm]		620X400X275					
Charging Temp. Range [°C]	0~50						
Discharging Temp. Range [°C]			-15	~50			
Communication			CAN/I	RS485			
Cycle Life			> 6	000 <sup>[1]</sup>			
Protection Level			IP	65			
Cooling Method			Nat	ural			
Altitude [m]			≤20	000			
Scalability			Up to 6 uni	ts in series			
Compatible Inverters		YELON, GOO	DWE, GROWA	TT, DEYE, SMA	A, VICTRON		
Certification & Safety Standard		CE/UN38.3/IEC62619/VDE-AR-E 2510-50					

Test conditions: 0.2C Charging/Discharging, @25°C, 80% DOD

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









YelonESS

# Single Phase Hybrid Inverter

**YelonESS** 



- 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

TECH SPECS	HV3K-1L-A	HV3K6-1L-A	HV4K-1L-A	HV4K6-1L-A	HV5K-1L-A	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		0.9	9lagging-0.99lead	ling				
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	40 ~ 58 V 95/83.3 A	95/95.8 A	95/104.2 A	95/110 A		
Battery Type	93/02.2 A	., .	Lithium/Lead-acid		93/104.2 A	90/110 A		
Communication Interface			CAN/RS485	1				
			CAN/R3403					
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%, 30	)S/120%, 10S/150	0%, 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		0~9	5% (non-condens	sing)				
Altitude [m]			≤2000					
Isolation Transformer			No					
Self-consumption			< 3W					
Installation			Wall-Mounted					
Display And Communication								
Display			LCD					
Interface		RS485/ CA	N/DRM/ Wi-fi (op	t.)/ 4G(opt.)				
Safety standard		IEC/EN6	2109-1/-2, IEC/EN	N62477-1				
EMC		IEC/EN 6	1000-6-1, IEC/EN	61000-6-3				
On-grid		South Africa:	NRS097-2-1:2017	7 LIK · C08 C00				

#### Make Your Energy aLways ON

Single Phase Hybrid Inverter







#### ESS



YelonESS

# **Three Phase Hybrid Inverter**

High performance ensured by Technology

• 2 MPP trackers; efficiency 97.6% • Pure sine wave output; low THD

• 100% Unbalanced three-phase output

• Adjustable power factor

**Reliable and** durable

User-friendly;

suitable for home use

- IP65 rated; outdoor installation possible
- Fool-proof design; anti-reversed connection
- Anti short circuit; anti-Islanding
- Only 20ms-lag switch between on and off grid mode
- Smart and auto switch of working mode
  - APP monitor the whole ESS in real-time
  - Auto cut off when problems occur

TECH SPECS	HV6K-3H	HV8K-3H	HV10K-3H	HV12K-3H		
PV Input						
Max.PV input power	9000W	12000W	15000W	15000W		
Max. input voltage		100	0Vd.c			
MPPT voltage range		200~9	50Vd.c.			
Start up voltage		250	Vd.c			
Max. input current	14/14Ad.c.	14/14Ad.c.	14/28Ad.c.	14/28Ad.c.		
Max.short circuit PV	17/17Ad.c.	17/17Ad.c.	17/34Ad.c.	17/34Ad.c.		
MPPT number			2			
No. of PV strings MPPT A/MPPT B	1/1	1/1	1/2	1/2		
Battery						
Battery type			ım-ion			
Rated voltage			/d.c.			
Battery voltage range			00Vd.c.			
Max. charge/discharge current			0Ad.c.			
Max. charge/discharge power	6000W	8000W	10000W	12000W		
Grid output / input						
Rated output power	6000W	8000W	10000W	12000W		
Max continuous output apparent power	6600VA	8800VA	11000VA	12000VA		
Max. AC output current	9.5Aa.c.	12.7Aa.c.	15.9Aa.c.	17.3Aa.c.		
Max. continuous input apparent power	12000VA	16000VA	16000VA	16000VA		
Max. AC input current	17.3Aa.c	23.1Aa.c	23.1Aa.c	23.1Aa.c		
Rated AC voltage			a.c.,3L+N+PE			
Rated grid frequency			60Hz			
Power factor at rated power/Adjustable power factor	or		ing-0.8 lagging)			
THDi@rated power		<	3%			
Backup output						
Rated output power	6000W	8000W	10000W	12000W		
Max. output apparent power	6600VA	8800VA	11000VA	12000VA		
Max. AC output current	9.5Aa.c.	12.7Aa.c.	15.9Aa.c	17.3Aa.c.		
Rated voltage			a.c.,3L/N/PE			
Rated frequency			60Hz			
Switch time			0ms			
Output THDv@Linear Load		<;	3%			
Efficiency						
Max.efficiency	97.8%	97.8%	98.0%	98.0%		
EU efficiency	97.5%	97.5%	97.6%	97.6%		
BAT charged Max. efficiency	98.0%	98.0%	98.0%	98.0%		
BAT dischaged Max. efficiency	97.5%	97.5%	97.6%	97.6%		
MPPT efficiency		99	.9%			
Protection						
Grid monitoring			es			
PV insulation resistance detection			es			
DC reverse polarity protection			es			
AC short-circuit protection			es			
AC over-current protection			es			
AC over-voltage protection			es			
Leakage current monitoring			es			
DC switch(solar)			es			
DC over current protection(Battery)			es			
Surge protection			/AC Type III			
Anti-islanding protection		Ť	es			
General information Dimensions(W*H*D)		50/v~51/	l×199mm			
			.0kg			
Weight			-			
Topology Operating temperature range			rmerless ·60°C			
Operating temperature range			265			
Ingress protection Cooling method			os convection			
Max.operating altitude			onvection 00m			
Acoustic Noise			0dB			
			, APP			
Display Communication (BMS/Meter/Portal)			485/WiFi			
Safety/EMC standard						
		CE, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3				

**Three Phase Hybrid Inverter**  ☑ info@yeloness.com www.yeloness.com







## **ALL-IN-ONE ESS ComboX-3HT**

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IP65 Rated

Designed for both indoor and

outdoor application

Safe and Reliable

Brand new A-Grade LFP cell

Various automatic protection functions

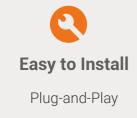
**Remote Control** 

Remote monitor of operation status

Alert pops up on APP if any problem occurs



Battery and inverter are pre-configured for best compatibility



save onsite installation time

## **YelonESS**

	ComboX-3HT-6kW	ComboX-3HT-8kW	ComboX-3HT-10kW	ComboX-3HT-1
PV Input				
Max.PV input power	9000W	12000W	15000W	15000W
Max. input voltage			0Vd.c	
Rated input voltage			Vd.c	
MPPT voltage range		200~9	50Vd.c.	
Max. input current	14/14Ad.c.	14/14Ad.c.	14/28Ad.c.	14/28Ad.c.
MPPT number			2	
No. of PV strings MPPT A/MPPT B	1/1	1/1	1/2	1/2
AC Output				
Rated Output Power	6000W	8000W	10000W	12000W
Max continuous output apparent power	6600VA	8800VA	11000VA	12000VA
Max. AC output current	9.5Aa.c.	12.7Aa.c.	15.9Aa.c	17.3Aa.c.
Rated AC voltage		230V/400V	a.c.,3L+N+PE	
Rated grid frequency		50/	60Hz	
Power factor		>0.99(0.8 lead	ing-0.8 lagging)	
THDi@rated power		<	3%	
EPS output				
Rated output power	6000W	8000W	10000W	12000W
Max. output apparent power	6600VA	8800VA	11000VA	12000VA
Max. AC output current	9.5Aa.c.	12.7Aa.c.	15.9Aa.c	17.3Aa.c.
Rated voltage			a.c.,3L/N/PE	
Rated frequency			60Hz	
Output THDv@Linear Load			3%	
Battery				
Battery type		Lithiu	um-ion	
Scalability			in series	
Nominal Voltage			/d.c.	
Nominal Capacity			10Wh	
Charging Temp. Range			~50°C	
Discharging Temp. Range			~50°C	
Recommended charge/discharge current			Ad.c.	
Max. charge/discharge current			OAd.c.	
Cycle Life		>6,	000 <sup>[1]</sup>	
Protection			,	
Grid monitoring			es .	
PV insulation resistance detection			es .	
DC reverse polarity protection			es	
AC short-circuit protection			'es	
AC over-current protection			es	
AC over-voltage protection			es	
Leakage current monitoring			es	
DC switch(solar)			es	
DC over voltage protection(Battery)			es	
Surge protection			/AC Type III	
Anti-islanding protection		Y	es	
General information				
Dimensions(W*H*D)		600*(954+N <sup>12)</sup>	*430)*250 mm	
Weight		60.2+	N*60 kg	
Topology		Transfo	rmerless	
Ingress protection		IF	965	
Cooling Method		Natural C	Convection	
Max.operating altitude		20	00m	
Acoustic Noise		<4	0dB	
Display		LCD	, APP	
Communication			/WiFi	
Safety/EMC standard	IEC/EN 62109-1/-2		2, IEC/EN 61000-6-1/-3, CE	/UN38.3/IEC62619
•			00, EN 50549-1, EN 50549	

[2] Number of battery/batteries

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# **ALL-IN-ONE ESS ComboX-3HS**



**Integrated Design** Battery and inverter are pre-configured for

best compatibility

Easy to Install Plug-and-Play save onsite installation time

## IP65 Rated Designed for both indoor and outdoor application

**YelonESS** 



Safe and Reliable

Brand new A-Grade LFP cell Various automatic protection functions



#### **Remote Control**

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

TECH SPECS	ComboX-3HS-6kW	ComboX-3HS-8kW	ComboX-3HS-10kW	Combox-SHS-T		
PV Input						
Max.PV input power	9000W	12000W	15000W	15000W		
Max. input voltage	1000Vd.c					
Rated input voltage	720Vd.c					
MPPT voltage range	200~950Vd.c.					
Max. input current	14/14Ad.c.	14/14Ad.c.	14/28Ad.c.	14/28Ad.c.		
MPPT number			2			
No. of PV strings MPPT A/MPPT B	1/1	1/1	1/2	1/2		
AC Output						
Rated Output Power	6000W	8000W	10000W	12000W		
Max continuous output apparent power	6600VA	8800VA	11000VA	12000VA		
Max. AC output current	9.5Aa.c.	12.7Aa.c.	15.9Aa.c	17.3Aa.c.		
Rated AC voltage		230V/400V	a.c.,3L+N+PE			
Rated grid frequency		50/	60Hz			
Power factor		>0.99(0.8 lead	ing-0.8 lagging)			
THDi@rated power		<	3%			
EPS output						
Rated output power	6000W	8000W	10000W	12000W		
Max. output apparent power	6600VA	8800VA	11000VA	12000VA		
Max. AC output current	9.5Aa.c.	12.7Aa.c.	15.9Aa.c	17.3Aa.c.		
Rated voltage		230/400Va	a.c.,3L/N/PE			
Rated frequency		50/	60Hz			
Output THDu@Linear Load		<	3%			
Battery						
Battery type		Lithiu	ım-ion			
Scalability	2~5 pcs in series					
Nominal Voltage	96Vd.c.					
Nominal Capacity	4800Wh					
Charging Temp. Range	0°C~50°C					
Discharging Temp. Range		-15°C	~50°C			
Recommended charge/discharge current	25Ad.c.					
Max. charge/discharge current	40/40Ad.c.					
Cycle Life		>6,	000 <sup>[1]</sup>			
Protection						
Grid monitoring		Y	es			
PV insulation resistance detection	Yes					
DC reverse polarity protection	Yes					
AC short-circuit protection	Yes					
AC over-current protection	Yes					
AC over-voltage protection	Yes					
Leakage current monitoring	Yes					
DC switch(solar)	Yes					
DC over voltage protection(Battery)	Yes					
Surge protection	DC Type II/AC Type III					
Anti-islanding protection			es			
General information						
Dimensions(W*H*D)		620*(979+N <sup>[2]</sup>	*210)*400 mm			
Weight	77.6+N*56 kg					
Topology	Transformerless					
Ingress protection		IF	265			
Cooling Method	Natural Convection					
Max.operating altitude	2000m					
Acoustic Noise	<40dB					
Display	LCD, APP					
Communication	CAN/WiFi					
Safety/EMC standard	IEC/EN 62109-1/-2, VDE 2510-50, VDE 2510-2, IEC/EN 61000-6-1/-3, CE/UN38.3/IEC62619					
	VDE-AR-N 4105, VDE 0124-100, EN 50549-1, EN 50549-10					

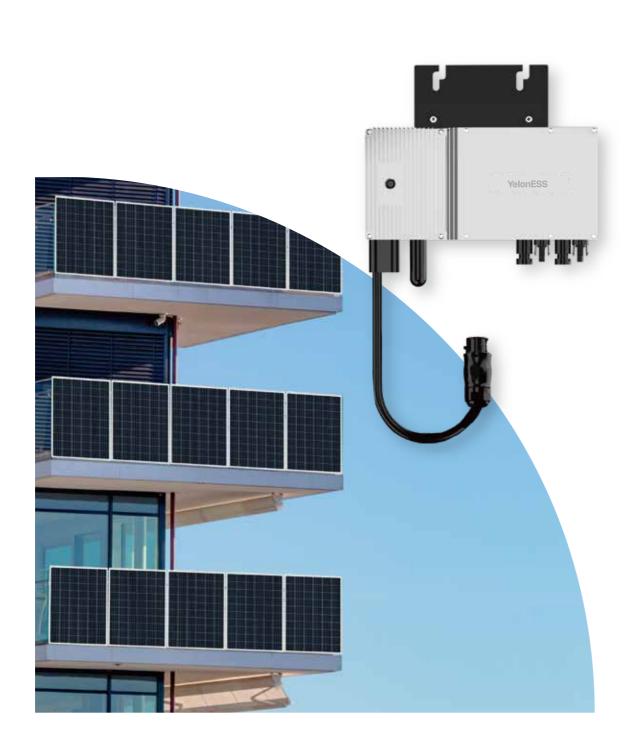
Test conditions: 0.2C Charging/Discharging, @25°C, 80% DOD [2] Number of battery/batteries







# **YelonESS Micro inverter**



**Tech Specs** 

TECH SPECS	Α	В	C			
INPUT DATA(DC)						
Recommended PV Module Power (STC) Range	240~410Wp	330~550Wp	390~680Wp			
Max. input voltage	65V					
MPPT Voltage Range	16~60V					
Start-up Voltage		22V				
Max. input current	13A×2	15A×2	17A×2			
Max.short circuit PV	25A×2	25A×2	25A×2			
Number of MPPTs	2					
Number of inputs per MPPT	1					
OUTPUT DATA (AC)						
Rated output power	600VA	800VA	1000VA			
Rated output current	2.6A	3.5A	4.5A			
Nominal output voltage/range	230/180-275V					
Nominal frequency voltage/range	50/45-55Hz					
Power Factor at Rated power/Adjust	power/Adjustable power factor >0.99(0.8 leading-0.8 lagging)					
THDi	<3%					
EFFICIENCY						
CEC peak efficiency	96.8%	96.8%	96.6%			
Nominal MPPT efficiency	99.8%	99.8%	99.8%			
GENERAL DATA						
Dimensions(W*H*D)	283*222*31mm					
Weight	3.1kg					
Тороlоду	Transformerless					
Self consumption(night)	<50mW					
Operating temperature range	-40~65°C					
Enclosure rating	Outdoor-IP67 (NEMA 6)					
Cooling Method	Natural Convection					
Communication	WiFi/Zigbee					
Monitoring	YelonESS Cloud					

# **YelonESS Micro inverter**

# YelonESS

**Tech Specs** 

TECH SPECS	Α	В	С		
INPUT DATA(DC)					
Recommended PV Module Power (STC) Range	240~460Wp	330~550Wp	390~680Wp		
Max. input voltage	65V				
MPPT Voltage Range	16~60V				
Start-up Voltage	22V				
Max. input current	13A×4	15A×4	17A×4		
Max.short circuit PV	25A×4	25A×4	25A×4		
Number of MPPTs	4				
Number of inputs per MPPT	1				
OUTPUT DATA (AC)					
Rated output power	1300VA	1600VA	2000VA		
Rated output current	5.7A	7.0A	8.7A		
Nominal output voltage/range	230/180-275V				
Nominal frequency voltage/range	50/45-55Hz				
Power Factor at Rated power/Adjust	able power factor >0	).99(0.8 leading-0.8 laggir	ıg)		
THDi	<3%				
EFFICIENCY					
CEC peak efficiency	96.8%	96.5%	96.5%		
Nominal MPPT efficiency	99.8%	99.8%	99.8%		
GENERAL DATA					
Dimensions(W*H*D)	296*238*36mm				
Weight	4.2kg				
Topology	Transformerless				
Self consumption(night)	<50mW				
Operating temperature range	-40~65°C				
Enclosure rating	Outdoor-IP67 (NEMA 6)				
Cooling Method	Natural Convection				
Communication	WiFi/Zigbee				
Monitoring	YelonESS Cloud				