



# Product Catalogue

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## — Enterprise Introduction

Shenzhen Zhongdian Huayu Technology Co., Ltd., referred to as “zhongdian house energy” (a subsidiary of shenzhen guohui lighting equipment co., ltd.) was founded in Sep-2015, located in shenzhen, China. it is a state-level high-tech enterprise with a comprehensive factory area of 5,000m<sup>2</sup>

Zhongdian house energy is a high-tech green new energy company that provides one-stop solutions for photovoltaic cells, inverters, lithium battery and complete solar systems to global users.

It has formed strategic partnerships with many well-known domestic and foreign companies, and exported to more than 40 countries and regions around the world. Based on the complete set of applications and solutions for advanced photovoltaic power generation systems, it is the benchmark manufacturer of new energy and energy-saving engineering projects in China.

The company has more than 10 technicians from the new energy industry, and has a complete design, research and development, production, sales and after-sale team to provide high-quality products and services to customers around the world. At the same time, 15 utility model patents and 3 integrated circuit patents were obtained, and has passed ISO9001, ISO14001, ISO45001, system management certification and so on, which has rapidly improved the company's core competitiveness.

The development mission of zhongdian zhongdian huayu technology energy is:

Keep environmental protection in mind,

Practice energy conservation and environmental protection in action,

Advocate energy conservation and emission reduction,

Practice green life, and build a green and beautiful home together!



## — Enterprise Qualification



# CATALOGUE

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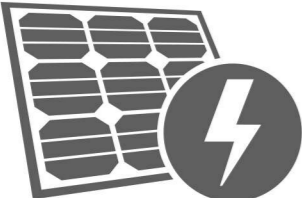


# HOUSEHOLD ENERGY STORAGE SYSTEM



## Why Change To Solar Energy ?

- Solar power is good for the environment
- Solar electricity makes your home go off-grid
- Solar power can use underutilised land
- Solar power causes less electricity cost
- Solar power improves grid security
- Solar power creates jobs and economic growth
- Solar power is a free source of energy



Keep the normal operation of home appliances in the event of a power outage



Energy storage during the day, power supply at night, self-sufficient



Clean energy and environmental protection, build a beautiful home together



Photovoltaic power generation, reducing the electricity bills



FRIDGE  
≈216H



AIR CONDITIONER  
1.5P≈7.5H



WASHING MACHINE  
≈18H



ELECTRIC FAN  
≈300H



MICROWAVE OVEN≈9H

10KWH BATTERY  
REFERENCE SERVICE TIME



TV  
≈100H



LED BULB  
≈300H



SOUND  
≈180H



COMPUTER  
≈30H



MOBILE DEVICE  
≈360H



# ZD-BP-10

## Multifunctional energy storage

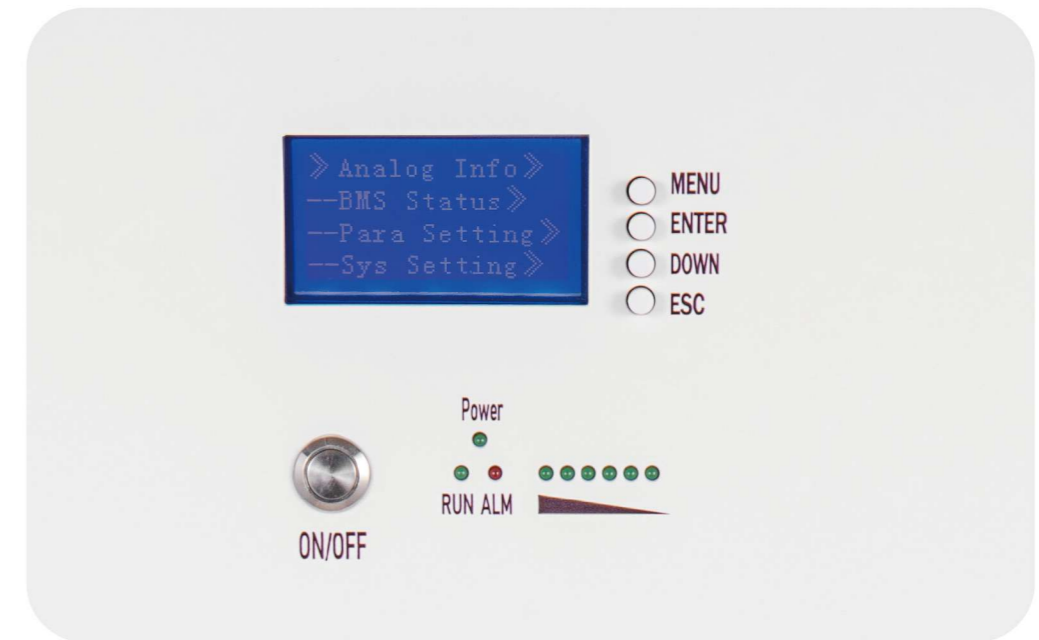
### Battery pack



#### —Product Features

- BMS intelligent battery management system.
- 16S1P internal knife-type batteries, fixed by bar brackets, easy to maintain.
- 3000 cycles top A model lithium iron phosphate battery.
- High&low temperature resistant , work normally in the environment of -20°C-50°C.
- 2 Optional installation methods : floor-mounted, wall-mounted.
- Support up to 15 battery packs in parallel.

#### —Function Display



#### —Parameters

Combination Mode	16S1P
Nominal Capacity	184Ah
Nominal Voltage	51.2V
Battery Type	LiFePO4 battery
Efficiency	95%
Internal Resistance	≤30mΩ
Operating Voltage	44.8-58.4V Adjustable
Charging Voltage	56-58V
Recommend Charge	50A
Max Charge/Discharge	100A
Communication Port	RS232 / RS485/ CAN / Dry-contact
Operating Temperature	0~45°C
Charging Temperature	0~45°C
Discharging Temperature	-20~55°C
Size	720*420*160mm
Weight	80kg



# ZD-BPW-5

## Wall-mounted energy storage Battery pack



### —Product Features

- BMS intelligent battery management system.
- 3000 Cycles top A model lithium iron phosphate battery.
- High&low temperature resistant , work normally in the environment of -10°C-60°C.
- Wall-mounted installation method.
- Products adopt modular design, with a higher integration,save the installation space.
- Support up to 15 battery packs in parallel.

### —Function Display



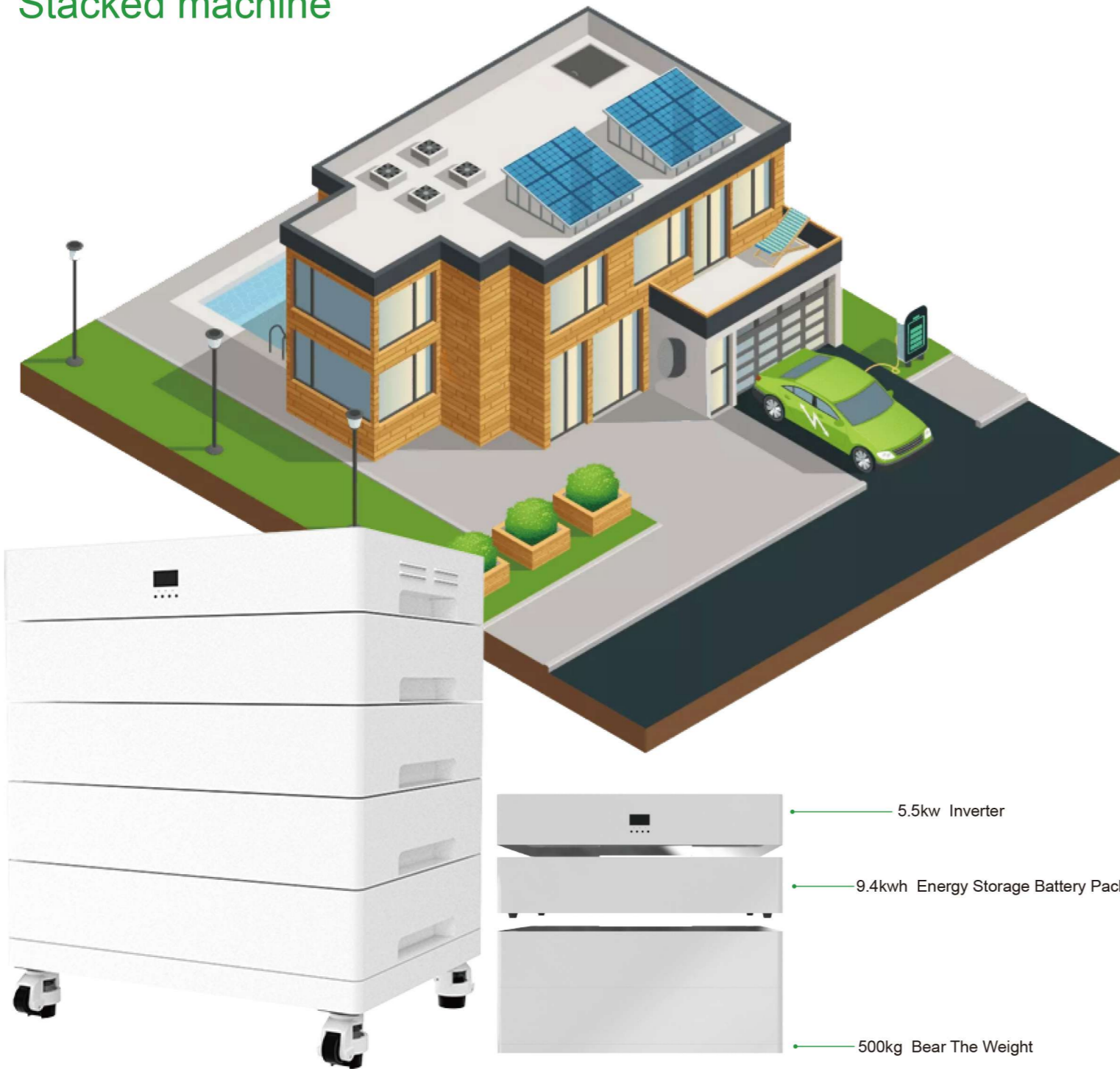
### —Parameters

Combination Mode	15S1P
Nominal Capacity	100Ah
Nominal Voltage	48V
Battery Type	LiFePO4 battery
Efficiency	95%
Internal Resistance	≤50mΩ @1kHz AC
Operating Voltage	44.8-58.4V Adjustable
Charging Voltage	56-58V
Recommend Charge	50A
Max Charge/Discharge	100A
Communication Port	RS232 /RS485 / CAN / Dry-contact
Operating Temperature	0~50°C
Charging Temperature	0~50°C
Discharging Temperature	-10~60°C
Size	582*492*217mm
Weight	57kg



# ZD-BPD-10

## All in one integrated Stacked machine

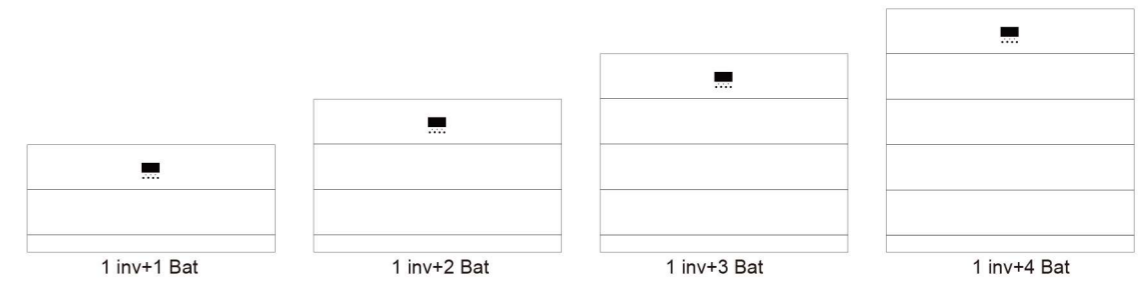


### —Product Features

- BMS intelligent battery management system.
- Inverter and battery with integrated stack design saves installation space.
- High&low temperature resistant , work normally in the temperature of -20°C-50°C.
- 2 Optional installation methods: stacked and universal wheel.
- Support up to 15 battery packs in parallel.
- 10-40KW wide capacity selection, wider application range.

### —INVERTER PARAMETERS

Rated AC output power	5500W
Rated AC output voltage	230VAC
Rated AC output frequency	50/60Hz
Maximum photovoltaic open circuit voltage	50VDC
MPPT voltage operating range	120-500VDC
Maximum photovoltaic input power	6000W
Number of MPPT paths	1



### —Parameters

Combination Mode	16S1P
Nominal Capacity	184Ah
Nominal Voltage	51.2V
Battery Type	LiFePO4 battery
Efficiency	95%
Internal Resistance	≤30mΩ
Operating Voltage	44.8-58.4V Adjustable
Charging Voltage	56-58V
Recommend Charge	50A
Max Charge/discharge	100A
Communication Port	RS232 /RS485 / CAN / Dry-contact
Operating Temperature	0~45°C
Charging Temperature	0~45°C
Discharging Temperature	-20~55°C
Size	683*593*163mm/ Layer
Inverter Weight	30KG
Battery Weight	85KG/ Layer
Base Weight	20KG



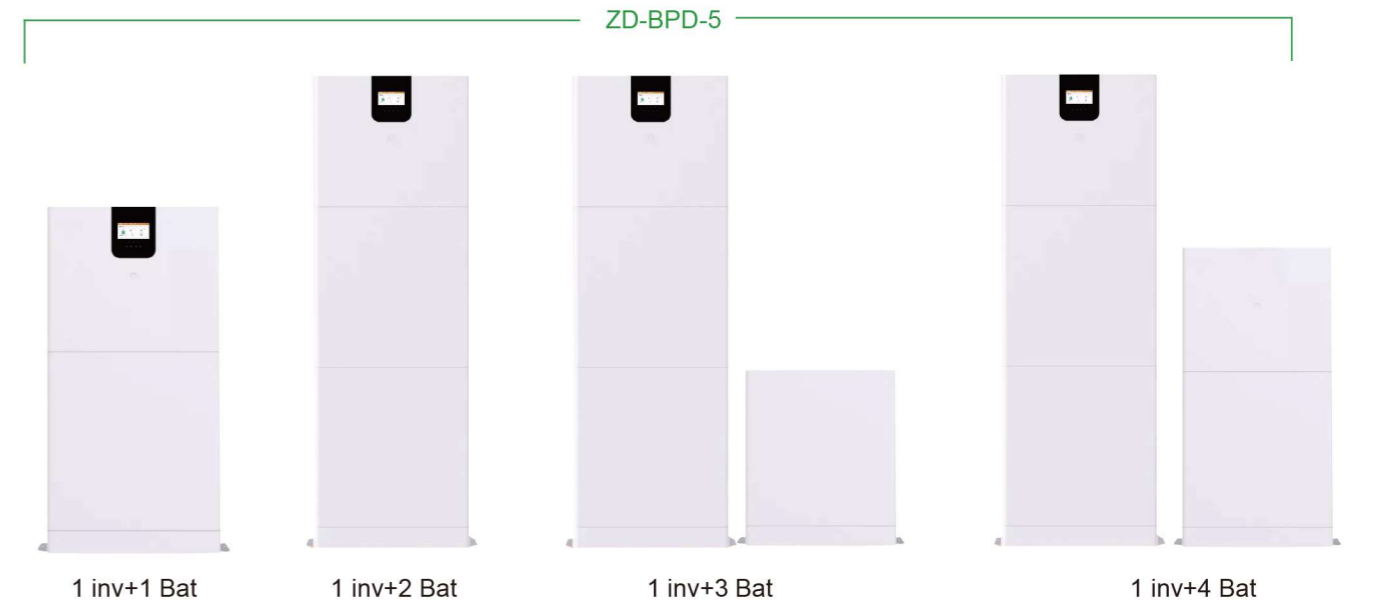
# ZD-BPD-5

## All in one integrated Stacked machine



## — PHOTOVOLTAIC ENERGY STORAGE SYSTEM

Model	ZD-BPD-5 24V	ZD-BPD-5 48V		ZD-BPD-5 48V	
Rated output voltage	230Vac single phase	120Vac single phase	230Vac single phase	120Vac single phase	230Vac single phase
3.5kW+5kWh	1 inverter +1 battery	/	/	/	/
3.5kW+10kWh	1 inverter +2 battery	/	/	/	/
5kW+5kWh	/	1 inverter +1 battery		1 inverter +1 battery	
5kW+10kWh	/	1 inverter +2 battery		1 inverter +2 battery	
5kW+15kWh	/	1 inverter +3 battery		1 inverter +3 battery	
5kW+20kWh	/	1 inverter +4 battery		1 inverter +4 battery	



## — INVERTER PARAMETERS

Rated AC output power	3500W
Rated AC output voltage	230VAC
Rated AC output frequency	50/60Hz
Maximum photovoltaic open circuit voltage	500VDC
MPPT voltage operating range	120-450VDC
Maximum photovoltaic input power	4000W
Number of MPPT paths	1

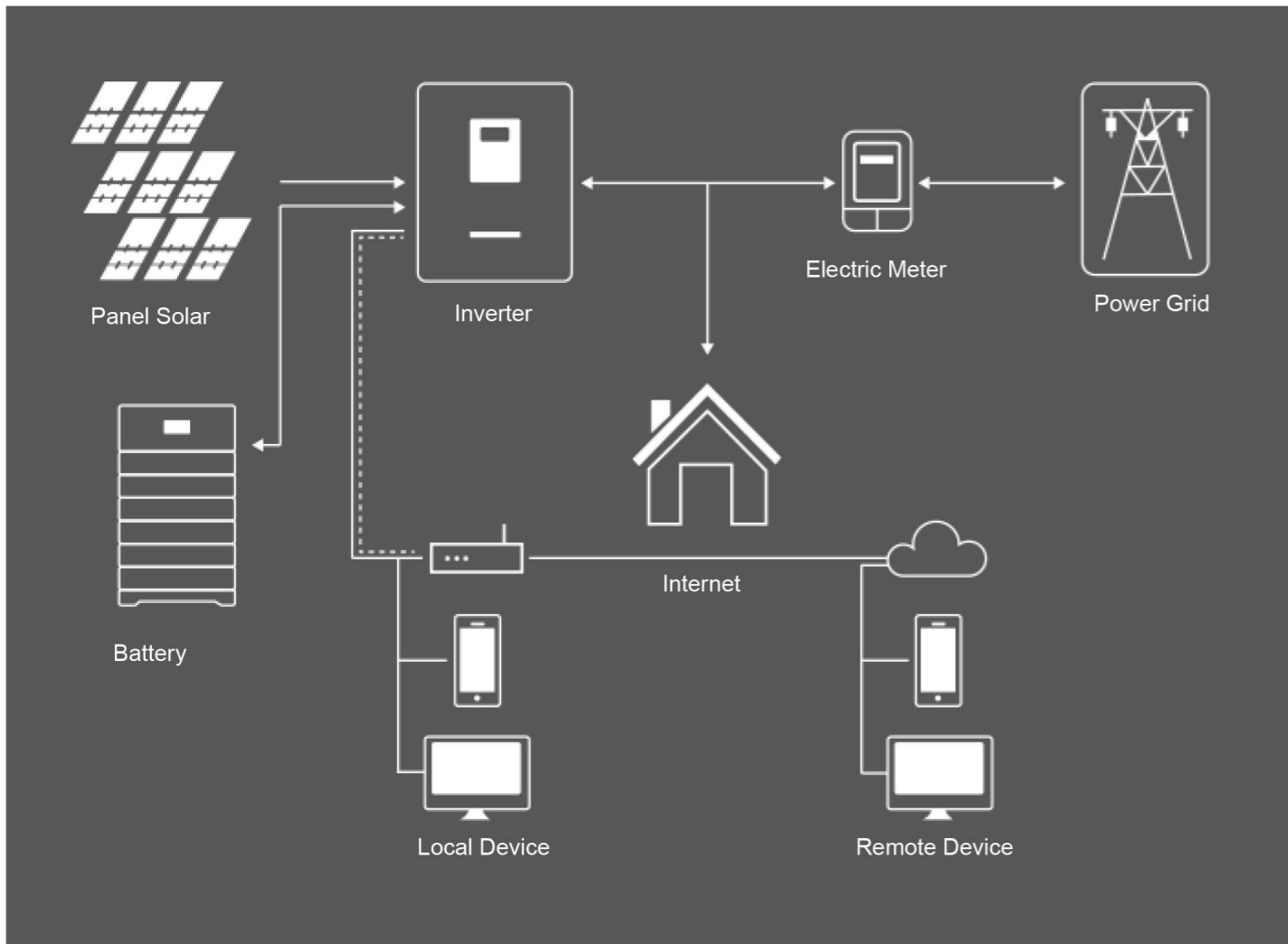
## — BATTERY PARAMETERS

Battery capacity	5.12kWh	Installation mode	Vertical stacking
Battery type	LiFePO 4 Battery	noise	<60dB
Rated battery voltage	25.6V	Working altitude	<2000m
Battery Capacity	200Ah	Correspondence	RS485/CAN/WIFI
Continuous charging current	150A(0.75C)	Protect	IP20
Continuous discharge current	150A(0.75C)	Size inverter	600*184*500mm
Depth Of Discharge DOD	80%	Weight	30Kg
Parallel capacity	1-2	Size battery	600*184*610mm
Cycle life 80%DOD	5000	Weight battery	70Kg

## — GENERAL PARAMETERS



## – Operating Principle



## – Application

Applied to home energy storage, communication base station, solar energy storage, industrial and commercial energy storage and other places





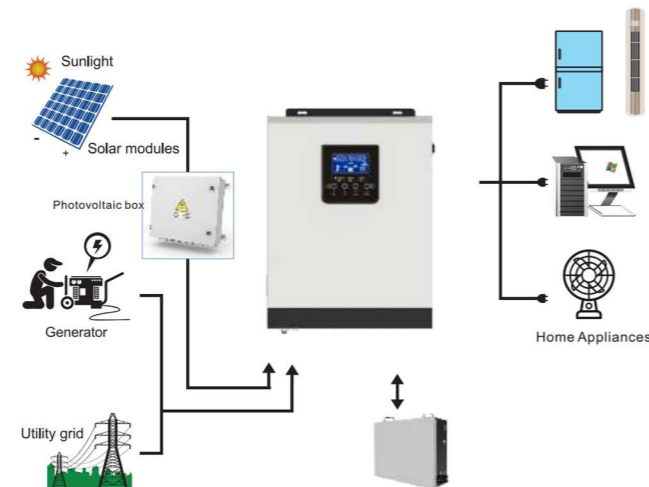
# ZD-1.2/2.4KWH-001 OFF GRID SOLAR INVERTER



## »» Overview



## »» Solar System Connection



## »» Features

- Pure sine wave inverter
- Selectable input voltage range for home use
- Configurable AC/Solar input priority via LCD setting
- Auto restart while AC is recovering
- Smart battery charger design for optimized battery performance
- Built-in PWM solar charge controller
- Selectable charging current based on applications
- Compatible to mains voltage or generator power
- Overload and short circuit protection

## »» Product Data Sheet

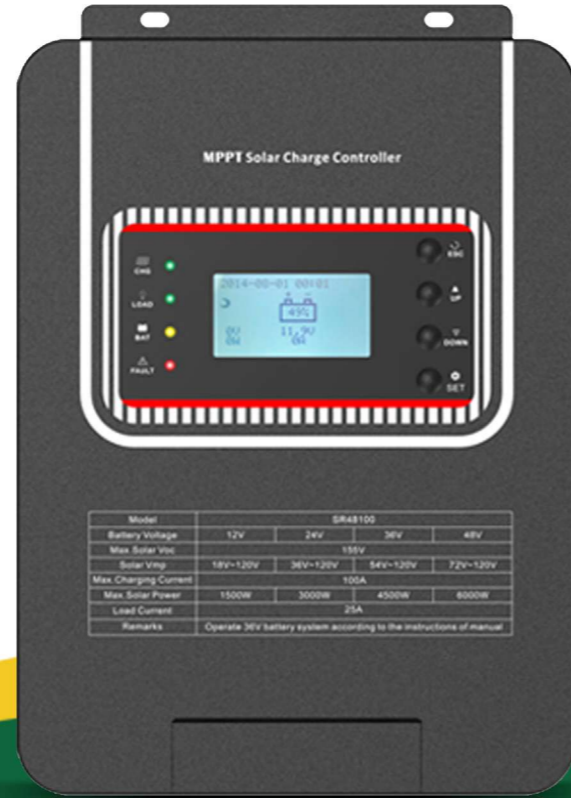
MODEL	1.5K-12	1.5K-24	3K-24
Rated Power	1500VA/1200W	1500VA/1200W	3000VA/2400W
<b>INPUT</b>			
Voltage	230VAC		
Selectable Voltage Range	170-280VAC(for personal computers) 90-280VAC(for home appliances)		
Frequency Range	50Hz/60Hz (Auto sensing)		
<b>OUTPUT</b>			
AC Voltage Regulation (Batt. Mode)	230VAC±5%		
Surge power	3000VA	3000VA	6000VA
Efficiency(Peak)	90%	93%	93%
Transfer Time	10ms (for personal computers) 20ms (for home appliances)		
Wave form	Pure Sine Wave		
<b>BATTERY</b>			
Battery Voltage	12VDC	24VDC	24VDC
Floating Charge Voltage	13.5VDC	27VDC	27VDC
Overcharge Protection	15.0VDC	30VDC	30VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>			
Maximum PV Array Open Circuit Voltage	55VDC	80VDC	80VDC
PV Range @ Operating Voltage	12-20VDC	30-40VDC	30-40VDC
Maximum Solar Charging Current	50A	50A	50A
Maximum AC Charging Current	10A/20A	20A/30A	20A/30A
Maximum Charging Current (Utility Charging+Solar Charging)	70A	80A	80A
Standby Power Consumption	2W	2W	2W
<b>PHYSICAL</b>			
Dimension.D*W*H(mm)	305*272*100mm		
Net Weight (kgs)	5.2kg		
<b>OPERATING ENVIRONMENT</b>			
Humidity	5% to 95% Relative Humidity(Non-condensing)		
Operating Temperature	0°C to 55°C		
Storage Temperature	-15°C to 60°C		



# ZD-MPPT CONTROLLER

## SOLAR CHARGE CONTROLLER

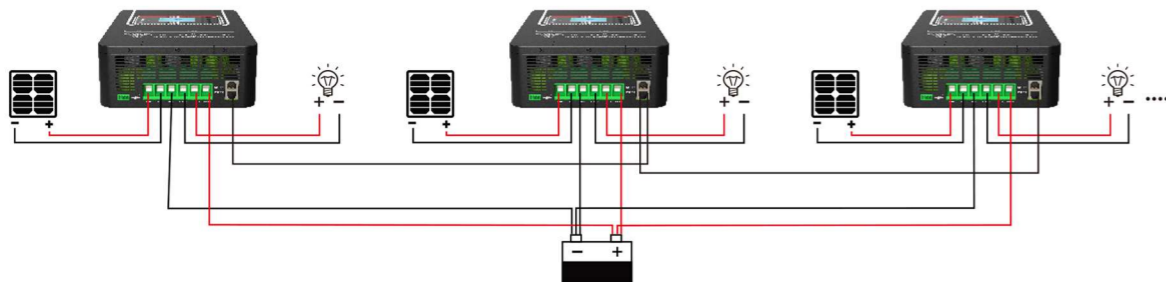
### »» Overview



### »» Features

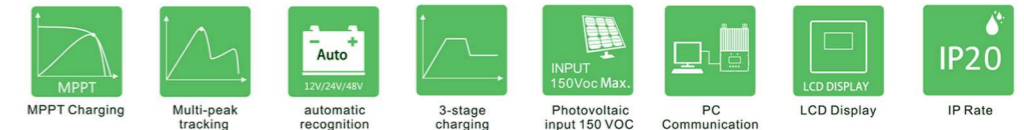
- MPPT tracking efficiency can reach 99.9%
- Conversion efficiency  $\leq 98\%$
- Load Rated Current 25A
- PV Wide Voltage Input(Prohibit DC power input)
- Automatic identification battery system
- Supports multiple battery types
- RS232/485 communication
- Load overcurrent/short circuit/overtemperature protection
- PV/BAT anti-reverse connection protection
- TVS Lightning Protection
- Supports the parallel use of multiple controllers
- Fan cooling

### »» Parallel connection diagram



## »» Product Data Sheet

MODEL	SR4880	SR48100
<b>PV INPUT(PV)</b>		
Maximum PV Voltage(VOC)	155V	
System Voltage	12V/24V/48V auto;36V set	
MPPT Voltage Range	Battery voltage+3V-120V	
Suggest Input VOC Voltage	PV array open circuit voltage 22V/40V/60V/80V for system 12V/24V/36V/48V	
Number Of MPPT Trackers	1	
<b>MAX. PV INPUT POWER</b>		
12V	1200W	1500W
24V	2400W	3000W
36V	3600W	4500W
48V	4800W	6000W
<b>CHARGER OUTPUT(DC)</b>		
Max. Output Current(revisable)	80A	100A
Rated Load Current	25A	
Max.Capacitive Load Capacity	10000uF	
Applicable Battery Type (ex-factory default lead-acid battery)	SLD (sealed lead-acid battery)/GEL (gelled lead-acid battery)/ FLD (flooded lead-acid battery)/LFP(lithium iron phosphate battery), NCM(ternary lithium battery)/USE(customize )	
<b>EFFICIENCY</b>		
Max.Efficiency	< 98%	
MPPT Efficiency	> 99%	
<b>PROTECTION</b>		
Protect Function	Input highvoltage protection ,output high/low voltage protection, PV/BAT anti-reverse connection protection, load over current protection,load short circuit protection, overtemperature protection, etc.	
<b>REGULAR DATA</b>		
Unloaded Loss	$\leq 2.3W$	
Operating Temperature	$-20^{\circ}C \sim +50^{\circ}C$	
Dimension.D*W*H(mm)	292*207*87mm	
Net Weight (kgs)	3.0kg	3.1kg
Elevation Height	0% to 95%(No condensat)	
Cooling Concept	Fan	
IP Rate	IP 20	
Communication Interface	RS232(Extensible interface)	





# ZD-5.5KW-A02

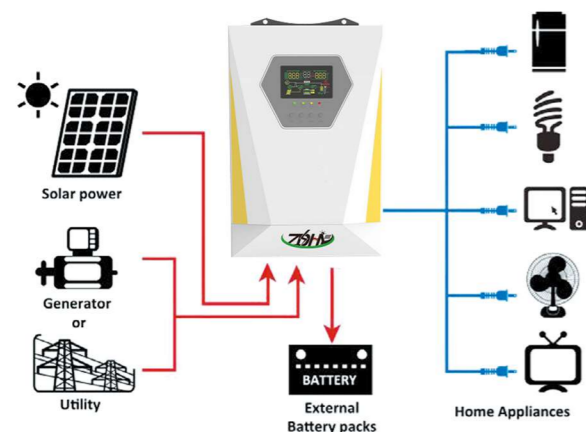
## OFF GRID SOLAR INVERTER



### »» Main Features:

- High efficiency pure sine wave inverter(PF=1)  
Wide PV input range (120V dc -500V dc) 80A  
MPPT SCC;Intelligent 3 stage 60A AC battery charger
- Intelligent functionality enables utility and solar input prioritization.
- Field serviceable with replacement boards and spare parts.
- System configures quickly into compact, wall-mounted system.
- Surges to 2X continuous power for 5 seconds for motor loads.
- Wide utility input range ( 90V ac ~280Vac ) for unreliable grid even in the most challenging environments.
- Monitor, troubleshoot, or communication with USB/RS 232.
- This series inverters can work without batteries when there is the sun.

### »» Solar System Connection



### »» HY VMII Series

- This is a multi functional inverter/charger, combining functions of inverter,solar charger and battery charger to offer uninterruptible power support in portable size.Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

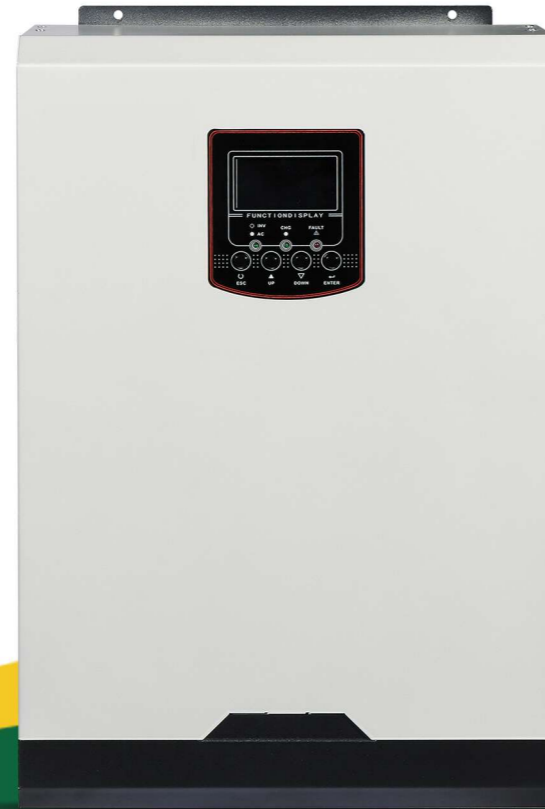
## »» Technical Specifications

MODEL	GD5548MH
<b>input</b>	
Input standard	L+N+PE
Rated input voltage	208/220/230/240VAC
Voltage range	154-264VAC±3V(Normal mode) 185-264VAC±3V(UPS mode)
Frequency range	50Hz/60Hz(self-adaptation)
<b>Exportation</b>	
Output rated power	5500W
Output voltage	208/220/230/240VAC±5%
Output frequency	50/60Hz±0.1%
Wave form	Pure sine wave
Switching time (optional)	Computer equipment 10MS Household appliances 20ms
Peak power	1100VA
Overload capacity	Battery mode: 1min@102%~110% Load 10s@110%~130% Load 3s@130%~150% Load 200ms@>150% Load
Peak efficiency (battery mode)	>94%
<b>Battery</b>	
Rated voltage	48Vdc
Constant voltage charge voltage (optional)	56.4Vdc
Floating charging voltage (optional)	54Vdc
<b>Recharger</b>	
PV charging mode	MPPT
PV Maximum input power	5500W
MPPT input voltage range	120~430Vdc
Optimum VMP operating range	300~340Vdc
Maximum PV input voltage	450Vdc
Maximum PV charging current	100A
Maximum mains charging current	100A
Maximum charging current	100A
<b>Reveal</b>	
LCD interface	Can display running mode/load/input/output, etc
<b>Port</b>	
RS232	5Pin/Pitch2.0mm baud rate 2400
Expansion slot overnight interface	2X5pin/pitch2.54mm lithium battery BMS communication card wifi card dry contact card, etc
Parallel interface	It has parallel function
<b>Environmental parameter</b>	
Operating ambient temperature	0~40°C
Operating environment humidity	20%~95% (无凝露)
Storage temperature	-15~60°C
altitude	The altitude must not exceed 1000M. Above 1000M, the derated maximum is 4000M. Refer to IEC62040
noise	≤50db
<b>Environmental parameter</b>	
Length width height (mm)	GA: 495x312x125 GL: 495x312x146
weight	8.5
Standards and certification	EN-IEC 60335-1 EN-IEC 60335-2-29 IEC 62109-1

# ZD-5.5KW-A03

## OFF GRID SOLAR INVERTER

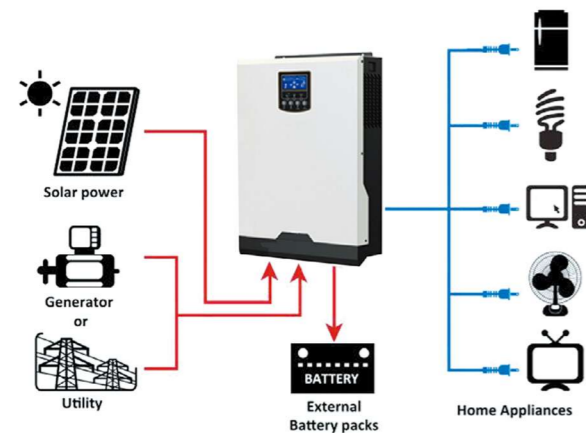
### Back Panel



### »» Main Features:

- High efficiency pure sine wave inverter(PF=1) Wide PV input range (120V dc -500V dc) 80A MPPT SCC;Intelligent 3 stage 60A AC battery charger
- Intelligent functionality enables utility and solar input prioritization.
- Field serviceable with replacement boards and spare parts.
- System configures quickly into compact, wall-mounted system.
- Surges to 2X continuous power for 5 seconds for motor loads.
- Wide utility input range ( 90V ac ~280Vac ) for unreliable grid even in the most challenging environments.
- Monitor, troubleshoot, or communication with USB/RS 232.
- This series inverters can work without batteries when there is the sun.

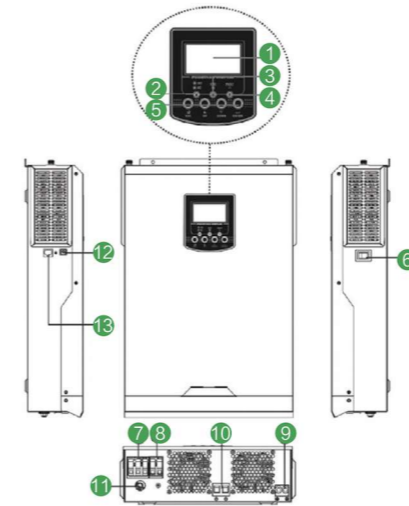
### »» Solar System Connection



### »» HY VMII Series

- This is a multi functional inverter/charger, combining functions of inverter,solar charger and battery charger to offer uninterruptible power support in portable size.Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

## »» Product Overview



- 1 LCD display
- 2 Status indicator
- 3 Charging indicator
- 4 Fault indicator
- 5 Function buttons
- 6 Power on/off switch
- 7 AC input
- 8 AC output
- 9 PV input
- 10 Battery input
- 11 Circuit breaker
- 12 USB communication port
- 13 RS-232 communication port

## »» Technical Specifications

MODEL	HY3222VMII	HY3522VMII	HY5032VMII	HY5532VMII
<b>Model</b>	HY3222VMII	HY3522VMII	HY5032VMII	HY5532VMII
<b>RATED POWER</b>	3200VA/3200W	3500VA/3500W	5000VA/5000W	5500VA/5500W
<b>INPUT</b>				
<b>Voltage</b>	230 VAC			
<b>Selectable Voltage Range</b>	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)			
<b>Frequency Range</b>	50 Hz/60 Hz (Auto sensing)			
<b>OUTPUT</b>				
<b>AC Voltage Regulation (Batt. Mode)</b>	230 VAC ± 5%			
<b>Surge Power</b>	6000VA	7000VA	10000VA	11000VA
<b>Efficiency (Peak)</b>	90%-93%			
<b>Transfer Time</b>	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)			
<b>Waveform</b>	Pure sine wave			
<b>BATTERY</b>				
<b>Battery Voltage</b>	24 VDC		48 VDC	
<b>Floating Charge Voltage</b>	27 VDC		54 VDC	
<b>Overcharge Protection</b>	33 VDC		63 VDC	
<b>SOLAR CHARGER &amp; AC CHARGER</b>				
<b>Max. PV Array Open Circuit Voltage</b>	500VDC		500VDC	
<b>Max. PV Array Power</b>	120~450VDC		120~450VDC	
<b>MPP Range @operating Voltage</b>	5000 W		6000 W	
<b>Max. Solar Charge Current</b>	80 A	100 A	80 A	100 A
<b>Max. AC Charge Current</b>	60 A		60 A	
<b>Max. Charge Current</b>	100 A		100 A	
<b>PHYSICAL</b>				
<b>Dimension, D x W x H (mm)</b>	115 x 300x 400			
<b>Net Weight (kgs)</b>	9		10	
<b>Communication Interface</b>	USB/RS232/RS485/Bluetooth/Dry-contact			
<b>ENVIRONMENT</b>				
<b>Humidity</b>	5% to 95% Relative Humidity (Non-condensing)			
<b>Operating Temperature</b>	-10° C to 50° C			
<b>Storage Temperature</b>	-15° C to 60° C			



# ZD-5.5KWH-A01

## OFF GRID SOLAR INVERTER



WIFI(optional)



LCD remote control(optional)



### »» Features

- Pure sine wave output
- Output power factor 1.0
- Programmable supply priority for PV , battery or Grid
- User-adjustable charge current and voltage
- Wide PV input range (120Vdc -500Vdc),110A MPPT SCC
- Use with lithium batteries
- Working without batteries in sunny day
- WiFi Monitoring Function (optional)
- Anti-dusk kit for harsh environment(optional)
- LCD remote control with 10 meters wire(optional)
- PV and electricity complementary

### »» Product Data Sheet

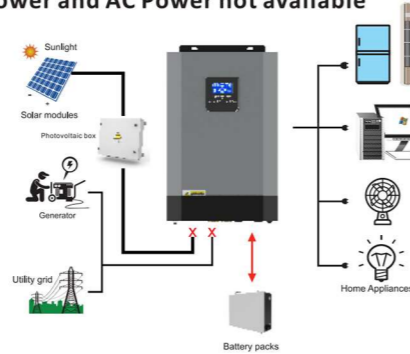
ZD-5.5KWH-A01	
Rated Power	5500VA/5500W
<b>INPUT</b>	
Voltage	230VAC
Selectable Voltage Range	170-280VAC(for personal computers) 90-280VAC(for home appliances)
Frequency Range	50Hz/60Hz (Auto sensing)
<b>OUTPUT</b>	
AC Voltage Regulation ( Batt.Mode)	230VAC±5%
Surge power	11000VA
Efficiency(Peak) PV to INV	97%
Efficiency(Peak) BAT to INV	94%
Transfer Time	10ms (for personal computers) 20ms (for home appliances)
Wave form	Pure Sine Wave
<b>BATTERY &amp; AC CHARGER</b>	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
Overcharge Protection	63VDC
Maximum charge current	80A
<b>SOLAR CHARGER</b>	
MAX.PV Array Power	6000W
MPPT Range@ Operating Voltage	120-500VDC
Maximum PV Array Open Circuit Voltage	500VDC
Maximum Charging Current	110A
Maximum Efficiency	98%
<b>PHYSICAL</b>	
Dimension.D*W*H(mm)	472*297*129
Net Weight (kgs)	10.5kg
Communication Interface	RS485/RS232(Standard) LCD remote/WIFI(Optional)
<b>OPERATING ENVIRONMENT</b>	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	0°C to 55°C
Storage Temperature	-15°C to 60°C

### »» Solar System Connection

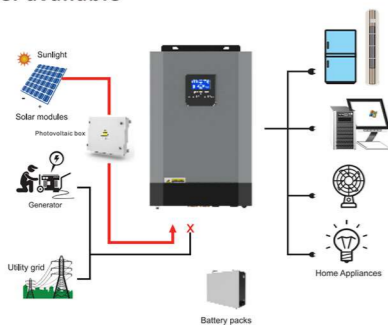
#### ■ Operation with battery connected Solar Power and AC Power available



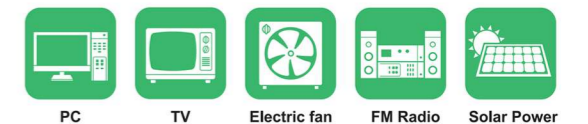
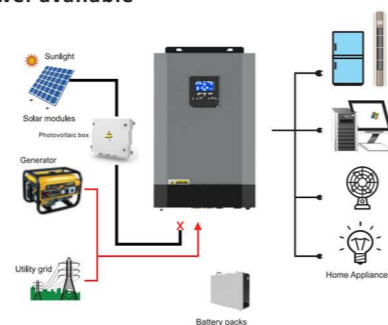
#### Solar Power and AC Power not available



#### ■ Operation without battery connected Solar Power available

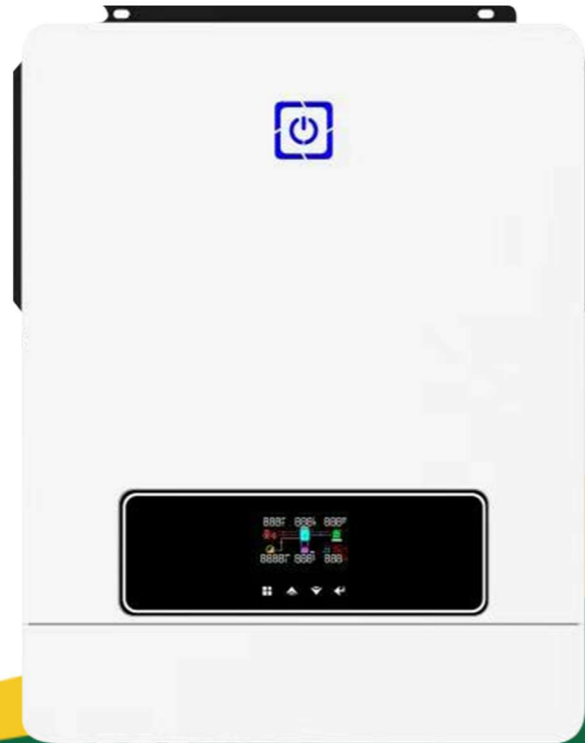
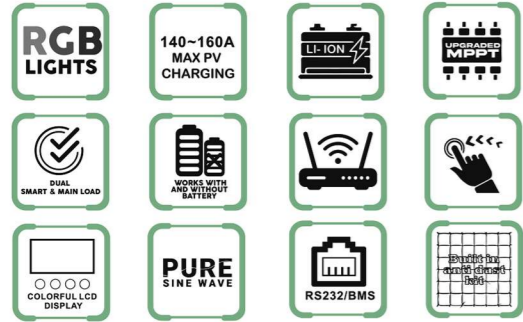


#### AC Power available



# ZD-10.5KW-B01

## HYBRID SOLAR INVERTER



### »» RGB lighting for different working mode



- RGB automatically switches with the working mode of the inverter:  
 Battery mode: red;  
 Utility mode: blue;  
 PV mode: purple

- off grid     hybrid
- on grid

Red-Battery Mode    Blue-Utility Mode    Purple-PV Mode

### »» Overview



LCD DISPLAY



WIFI-APP

### »» Features

- Pure sine wave solar inverter(on/off grid)
- Inverter running without battery
- Output power factor 1.0
- High PV input voltage range(90~500VDC)
- WIFI&GPRS available for IOS and Android
- Built-in anti-dusk kit for harsh environment
- Built-in 160A(for 7.2KW/8.2KW)/180A(for 10.2KW)MPPT solar charge
- Smart battery charge design to optimize battery life
- One-click restoration to factory settings
- Dual output
- Built-in lithium battery automatic activation

### »» Product Data Sheet

MODEL	MPS-V MAX 7.2KW	MPS-V MAX 8.2KW	MPS-V MAX 10.2KW
Phase	1-phase		
Maximum PV Input Power	8200W	8200W	10200W
Rated Output Power	7200W/7200VA	8200W/8200VA	10200W/10200VA
Maximum Solar Charging Current	140A	160A	160A
<b>GRID-TIE OPERATION</b>			
<b>PV Input(DC)</b>			
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC		
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC		
MPPT Voltage Range	90VDC~450VDC		
Number Of MPPT Trachers/Maximum Input Current	1/27A		
<b>GRID OUTPUT(AC)</b>			
Nominal Output Voltage	200/230/240VAC		
Output Voltage Range	195.5~253VAC		
Nominal Output Current	31.3A	35.6A	44.3A
Power Factor	>0.99		
Feed-in Grid Frequency Range	49~51±1Hz		
<b>EFFICIENCY</b>			
Maximum Conversion Efficiency(DC/AC)	98%		
<b>TWO LOAD OUTPUT POWER(V2.0)</b>			
Full Load	7200W	8200W	10200W
Maximum Main Load	7200W	8200W	10200W
Maximum Second Load(Battery mode)	2400W	2733W	3400W
Main Load Cut Off Voltage	44VDC	44VDC	44VDC
Main Load Return Voltage	52VDC	52VDC	52VDC
<b>OFF-GRID OPERATION</b>			
<b>AC INPUT</b>			
AC Start-up Voltage/Auto Restart Voltage	120-140VAC / 180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Maximum AC Input Current	40A	40A	50A
Nominal Operating Frequency	50/60Hz		
Surge Power	14400W	16400W	20400W
<b>PV INPUT(DC)</b>			
Maximum DC Voltage	500VDC		
MPPT Voltage Range	90VDC~450VDC		
Number of MPPT Trackers/Maximum Input Current	1/27A		
<b>BATTERY MODE OUTPUT(AC)</b>			
Nominal Output Voltage	48VDC	48VDC	48VDC
Output Waveform	Pure sinewave		
Efficiency(DC to AC)	94%		
<b>BATTERY &amp; CHARGER</b>			
Nominal DC Voltage	48VDC	48VDC	48VDC
Maximum Solar Charging Current	140A	160A	160A
Maximum AC Charging Current	120A	140A	140A
<b>PHYSICAL</b>			
Dimension,D x W x H	420*310*110		
Net Weight(kgs)	13.1	14.2	14.5



# ZD-11KW-B02

## »» Solar System Connection



## »» Main Features:

- Customizable status LED bar with RGB lights
- Built-in WiFi for mobile monitoring (Android/iOS App are available)
- Support USB on the go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Parallel operation up to 6 units only available for 7.2kVA
- Configurable AC/PV output usage timer and prioritization
- Select-able high power charging current
- Select-able input voltage range for home appliance and personal computers
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Optional DC output for DC fan, LED bulb, router and so on



### RGB light:

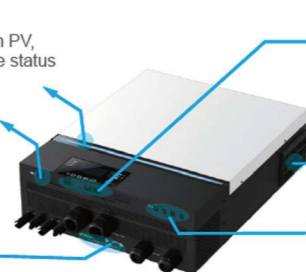
Different color to present output source from PV, Grid or battery and battery charge/discharge status



### Communication for Remote panel



Parallel connectors:  
Maximum 6 units in parallel (only for MAX-7200)



### Diverse communications:

USB On-the-Go function, Dry contact and BMS communication



### Anti-dust filter:

Increase product reliability in harsh environment



### DC output connectors:

Connect to DC fan, LED bulb or router

## »» Technical Specifications

Model	Max 11000	Max 8000	Max 6500
Capacity	11000VA / 11000W	8000VA / 8000W	6500VA / 6500W
Parallel	Yes, 6 units		Yes, 6 units
<b>INPUT</b>			
Selectable Voltage Range	230 VAC		120 VAC
Frequency Range	170~280 VAC (For Personal Computers); 90~280 VAC (For Home Appliances)		90~140 VAC (For PC) 80~140 VAC (For Home Appliances)
<b>OUTPUT</b>			
AC Voltage Regulation (Batt. Mode)	230 VAC ± 5%		120 VAC ± 5%
Surge Power	22000VA	15000VA	13000VA
Efficiency (Peak)	90%~93%		
Transfer Time	15ms (For Personal Computers) 20ms (For Home Appliances)		
Waveform	Pure sine wave		
No Load Power Consumption	<70W	<70W	<70W
<b>BATTERY</b>			
Battery Voltage	48 VDC	48 VDC	48 VDC
Floating Charge Voltage	54 VDC	54 VDC	54 VDC
Overcharge Protection	66 VDC	66 VDC	66 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>			
Solar Charger type	MPPT		
Max. PV Array Open Circuit Voltage	500VDC	500VDC	250VDC
MPP Range @operating Voltage	90~450VDC	90~450VDC	90~230VDC
Max. PV Array Power	11000W (5500W x 2)	8000W (4000W x2)	8000W (4000W x2)
Max. Solar Charge Current	150 A	80 A	120A
Max. AC Charge Current	150 A	80 A	120A
Max. Charge Current	150 A	80 A / 120 A	120A
<b>PHYSICAL</b>			
Dimension, D x W x H (mm)	147.4 x 432.5 x 553.6		
Net Weight (kgs)	18.4		
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact		
<b>ENVIRONMENT</b>			
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature	-10°C to 50°C		-10°C to 40°C
Storage Temperature	-15°C to 60°C		



# ZD-11KW-B03

## ALL-IN-ONE SOLAR CHARGE INVERTER

### »» Efficient

- Dual MPPT with up to 99.9% efficiency
- Up to 22A PV input current perfect for high power modules

### »» User-friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

### »» All-in-one

- Solar Charger Controller up to 200A charging current
- Support for Li-ion battery BMS communication



### »» Reliable

- Outputs high quality pure sine wave AC power
- 8-10kW load power to meet the needs of most households

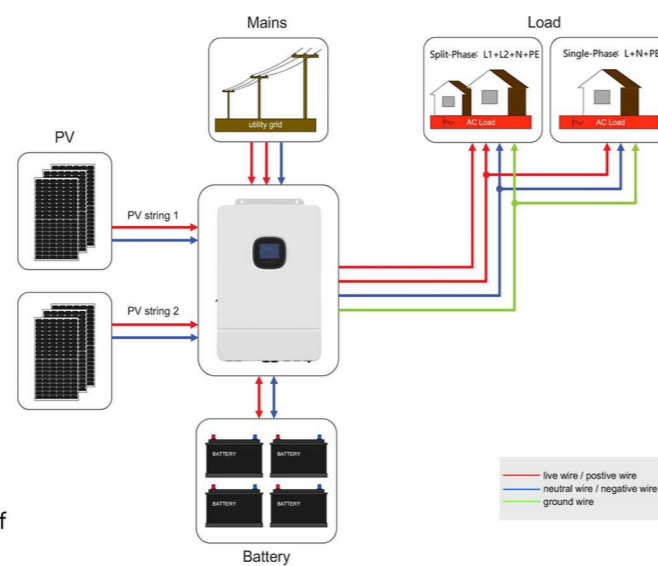
### »» Safety

- 360 degrees of security from hardware to software
- EU and North American safety approvals

### »» Intelligent

- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley tariff

### »» Schematic Diagram



## »» Product Data Sheet

MODEL	ZD-8K-U	ZD-10K-U	CAN BE SET
<b>INVERTER</b>			
Rated Output Power	8000W	10000W	
Max.Peak Power	16000W	20000W	
Rated Output Voltage	120/240V ac (L1/L2/N/PE split phase)		Y
Load Capacity of Motors	5HP	6HP	
Rated AC Frequency	50/60Hz		Y
Waveform	Pure Sine Wave		
Switch Time	10ms (typical)		
Parallel Capacity	/		
<b>BATTERY</b>			
Battery Type	Li-ion / Lead-Acid / User Defined		Y
Rated Battery Voltage	48Vdc		
Voltage Range	40~60Vdc		Y
Max.MPPT Charging Current	200A		Y
Max.Mains/Generator Charging	100A	120A	Y
Max.Hybrid Charging Current	180A	200A	Y
<b>PV INPUT</b>			
Num. of MPPT Trackers	2		
Max.PV Array Power	11000W		
Max.Input Current	22/22A		
Max.Voltage of Open Circuit	500Vdc		
MPPT Voltage Range	125~425Vdc		
<b>UTILITY/ GENERATOR INPUT</b>			
Input Voltage Range	90~140V ac		
Frequency Range	50/60Hz		
Bypass Overload Current	63A		
<b>EFFICIENCY</b>			
MPPT Tracking Efficiency	99.9%		
Max. Battery Inverter Efficiency	92%		
<b>General</b>			
Dimensions	620*435*130mm (2*1.4*0.4ft)		
Weight	20kg (44lb)	21kg (46.3lb)	
Protection Degree	IP20, Indoor Only		
Operating Temperature Range	-10~55°C, >45°C derated		
Humidity	-25°C ~ 60°C		
Cooling Method	Internal Fan		
Warranty	2Years		
<b>COMMUNICATION</b>			
Embedded Interfaces	RS485/CAN/USB/ Dry contact		Y
External Modules (Optional)	Wi-Fi / GPRS		Y
<b>CERTIFICATION</b>			
Safety	IEC62109-1, IEC62109-2, UL1741		
RoHS	Yes		
EMC	EN61000-6-1, EN61000-6-3, FCC Class B		



# ZD-15KW-C01

ON-OFF GRID INVERTER WITH ENERGY STORAGE



HYBRID OPERATION			
<b>PV INPUT(DC)</b>			
Nominal DC Voltage/Max. DC Voltage	360 VDC/500 VDC	720 VDC/ 900 VDC	720 VDC/ 900 VDC
Start-up Voltage/Initial Feeding Voltage	116 VDC/150 VDC	320 VDC/ 350 VDC	320 VDC/ 350 VDC
MPP Voltage Range	120 VDC~450 VDC	400 VDC~800 VDC	350 VDC~850 VDC
No. of MPP Trackers/Max. Input Current	2/2x13A	2/2x18.6A	2/A: 37.65A; B:18.6A
<b>GRID OUTOUT(AC)</b>			
Nominal Output Voltage	202/208/2020/230/240 VAC	230 VAC (P-N)/ 400 VAC (P-P)	230 VAC (P-N)/ 400 VAC (P-P)
Output Voltage Range	184~264.5 VAC*	184~264.5 VAC* per phase	184~264.5 VAC* per phase
Nominal Output Current	23.9A	14.5A per phase	21.7A per phase
<b>AC INPUT</b>			
AC Start-up Voltage/Auto Restart Voltage	120~ 140VAC/180VAC	120~ 140VAC per phase / 180VAC per phase	120~ 140VAC per phase/ 180VAC per phase
Acceptable Input Voltage Range	170~280 VAC	170~280 VAC	170~280 VAC per phase
Max. AC Input Current	30A	30A	40A
<b>BATTERY MODE OUTPUT(AC)</b>			
Nominal Output Voltage	202/208/220/230/240 VAC	230 VAC (P-N)/ 400 VAC(P-P)	230 VAC (P-N)/ 400 VAC(P-P)
Efficiency (DC to AC)	93%	91%	91%
<b>BATTERY&amp; CHARGER</b>			
Battery DC Voltage	48V		
Max. Charging Current	Default 60A	Default 60A,10A~200A Adjustable	Default 60A, 5A~300A Adjustable
<b>GENERAL</b>			
<b>PHYSICAL</b>			
Dimension, D x W x H (mm)	110*450*445	167.5*500*622	219*650*820
Net weight (kgs)	16	45	62
<b>INTERFACE</b>			
Communication Port	RS-232/USB and CAN Interface		RS-232, USB and Dry contact
<b>ENVIRONMENT</b>			
Humidity	0 ~90%RH		
Operating Temperature	0 to 40°C	- 10 to 55 °C	
Altitude	0~ 1000 m**		

## »» Technical Specifications

MODEL	HYG5532	HYG1033	HYG1533
PHASE	1-phase in/1 phase out	3-phase in/3-phase out	3-phase in/3-phase out
Max.PV INPUT POWER	6500W	14850W	22500W
Rated Output Power	5500W	10000W	15000W
Maximum Charging Power	2880 W	9600 W	15000 W
<b>GRID TIE OPERATION</b>			
<b>PV INPUT(DC)</b>			
Nominal DC Voltage/Max. DC Voltage	360 VDC/500 VDC	720 VDC/900 VDC	720 VDC/900 VDC
Start-up Voltage/Initial Feeding Voltage	116 VDC/150 VDC	320 VDC/350 VDC	320 VDC/350 VDC
MPP Voltage Range	120 VDC~450 VDC	400 VDC~800 VDC	400 VDC~800 VDC
Number of MPP Trackers	2/2x13A	2/2x18.6A	2/A: 37.65A; B:18.6A
Maximum Input Current			
<b>GRID OUTPUT(AC)</b>			
Nominal Output Voltage	220/230/240 VAC	230 VAC (P-N) 400 VAC (P-P)	230 VAC (P-N) 400 VAC (P-P)
Output Voltage Range	184~265VAC	184 ~265 VAC* per phase	184 ~ 265 VAC* per phase
Nominal Output Current	23.9A	14.5A per phase	21.7A per phase
Power Factor	> 0.99		
<b>EFFICIENCY</b>			
Maximum Conversion Efficiency (DC/AC)	96%		
European Efficiency@Vnominal	95%		
<b>OFF GRID OPERATION</b>			
<b>AC INPUT</b>			
AC start-up Voltage/ Auto Restart Voltage	120~ 140VAC/180VAC	120~ 140VAC per phase 180 VAC per phase	120~ 140VAC per phase 180 VAC per phase
Acceptable Input Voltage Range	170~280VAC	170~280VAC per phase	170~280 VAC per phase
Max. AC Input Current	40A	40A	40A
<b>PV INPUT(DC)</b>			
Max. DC Voltage	500 VDC	900 VDC	900 VDC
MPP Voltage Range	120 VDC~450 VDC	400 VDC~800 VDC	350 VDC~850 VDC
Number of MPP Trackers/Max. Input Current	2/2x13A	2/2x18.6A	2/A: 37.65A; B:18.6A
<b>BATTERY Mode Output(AC)</b>			
Nominal Output Voltage	220/230/240VAC	220/230/240 VAC	230VAC (P-N) / 400VAC (P-P)
Output Waveform	Pure Sine Wave		
Efficiency (DC to AC)	93%	91%	91%

## »» Features

- Pure sine wave output
- Self-consumption and feed in to the grid
- Programmable supply priority for PV,Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operation modes: Grid-tie, Off-grid and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Multiple communication for USB,RS232,Modbus and SNMP
- Monitoring software for rel-time status display and control
- Parallel operation up to 6 units for 10KW & 15KW

## »» HY VMII Series



# ZD-PPS-F600

## Portable energy storage

### Power station



#### –Product Features

- Portable, strong mobility, easy to use.
- High performance, high safty, high power automotive power battery.
- Under voltage, over current, over temperature, short circuit, over-impact, over-discharge and other system protection functions.
- Digital tube display displays power and function status indication.
- Support QC3.0 PD100w fast charge output function.

#### –Key Function



1. Main Power Switch
2. LED Light Switch
3. Main DC Switch
4. 12V Output Port
5. Cigarette Lighter Connector
6. Type-C2 Input And Output Port
7. Type-C1 Output Port
8. USB Output Port
9. USB Output Switch
10. LED Screen
11. LED Lamp
12. DC Charging Port
13. AC Switch
14. AC Socket

#### –Rated Power

Battery Capacity		460Wh
Peak Power		600W
Battery Type		LiFePO4 battery
Charging Method		Adapter/Car charger/Solar panel /Type-C
Output	AC	220V/50Hz (110V/60Hz) shared power 600W(Max)
	DC	12-16.8V-7-10A
	USB-A	1*USB QC3.0 18W ; 2*USB 5V-2.4A
	Type-C	
	C1	PD/QC3.0 MAX 18W 12V/2.5A
	C2	5V/9V/12V/15V/20V-3 .25A MAX PD100W
Wireless Charging Output		10W
Cycle Life		3000+
Weight		7.5kg
Size		270*210*230mm



# ZD-PPS-A600

## Portable energy storage Power station



### —Key Function



1. Screen
2. DC Charging Port
3. AC Power Switch
4. AC Power Socket \*2
5. DC Switch
6. Car Charging port
7. DC Output Port \*2
8. USB Switch
9. USB-C
10. USB-A1
11. USB-A2 & USB-A3
12. LED Switch
13. LED Lighting Lamp
14. Wireless Charging

### —Rated Power

Product Model		ZD-PPS-A600	ZD-PPS-A1200
Battery Capacity		448Wh	1008Wh
Peak Power		600W	1200W
Battery Type		LiFePO4 battery	
Charging Method		Adapter/Car charger/Solar panel /Type-C	
Output	AC	220V/50Hz (110V/60Hz)	
	DC	12-16.8V ; 7-10A	
	USB	1*USB QC3.0 18W ; 2*USB 5V-2.4A	
	Type-C	C1	5V/9V/12V/15V/20V-3 .25A
		C2	MAX PD65W
Wireless Charging Output		10W	
Cycle Life		3000+	
Weight		8kg	13kg
Size		306×171×202mm	413×203×232mm

### — Product Features

- Automobile power battery with high performance, high safety and high power.
- Support 12V-30V/3.4A photovoltaic charging and adapter 3A charging.
- Under voltage, over current, over temperature, short circuit, over - impact, over - discharge and other system protection functions.
- Digital tube display screen is used to display electric quantity and functional status indication.
- Support QC3.0 PD65W fast charge output function.

# ZD-PPS-A1000

## Portable energy storage Power station



### — Product Features

- Support dc charging and discharging function.
- Automobile power battery with high performance, high safety and high power.
- Under-voltage, over-current, over-temperature, short Circuit, overcharge, over-discharge and other system protection functions.
- AC 110V or 220V, DC 5V/12V and other voltage outputs.
- Support 380W fast charging interface.

### —Key Function



1. 380W Fast Charging Port
2. 12V10A Output Terminal
3. 12V-30V Charging
4. AC Start Switch
5. TWO AC Output Terminal
6. TWO 12V10A Output Terminal
7. TWO PD3.0 Output Terminal
8. USB 2.4A Output Terminal
9. DC Startup
10. QC3.0 Output
11. LCD Screen
12. 3W Side Lighting

### —Rated Power

Battery Capacity		999Wh
Peak Power		1000W
Battery Type		Ternary Lithium
Battery Type		Adapter/Car charger/Solar panel mains charging
Output	AC	220V/50Hz Or 110V/60Hz
	DC	12V/10A
	USB	5V/2.4A
	Type-C	C1: 5V/3A 9V/2A 12V/1.5A(QC3.0) C2: Support 380W Fast Charging Interface
Wireless Charging Output		10w
Cycle Life		3000+
Weight		7.5kg
Size		355*265*250mm

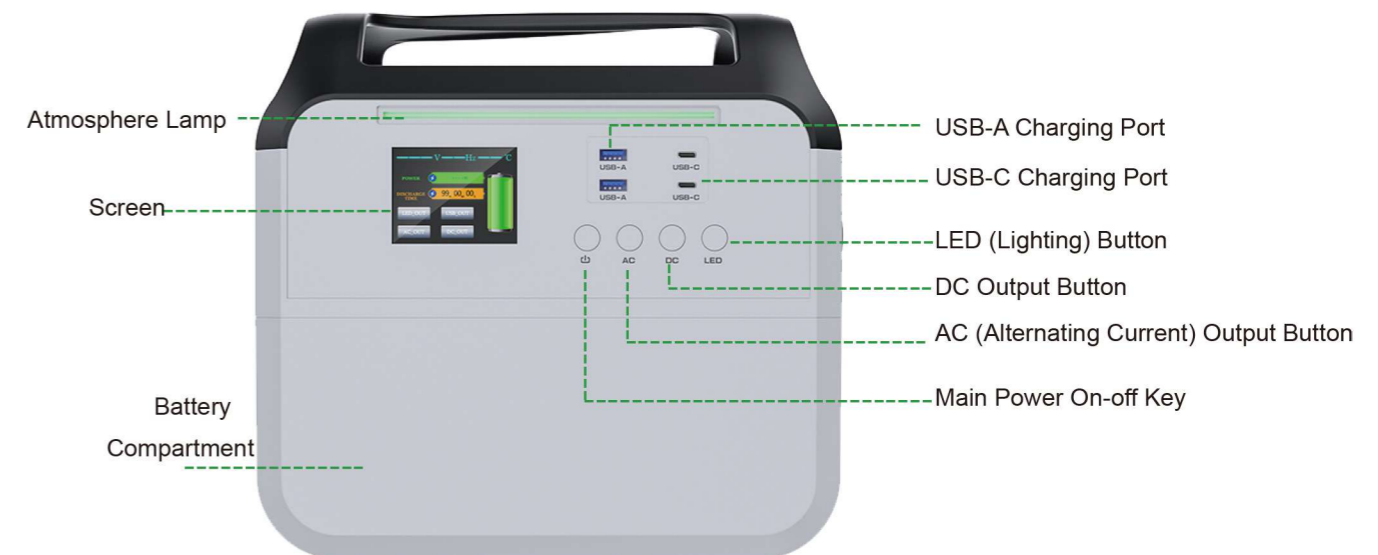
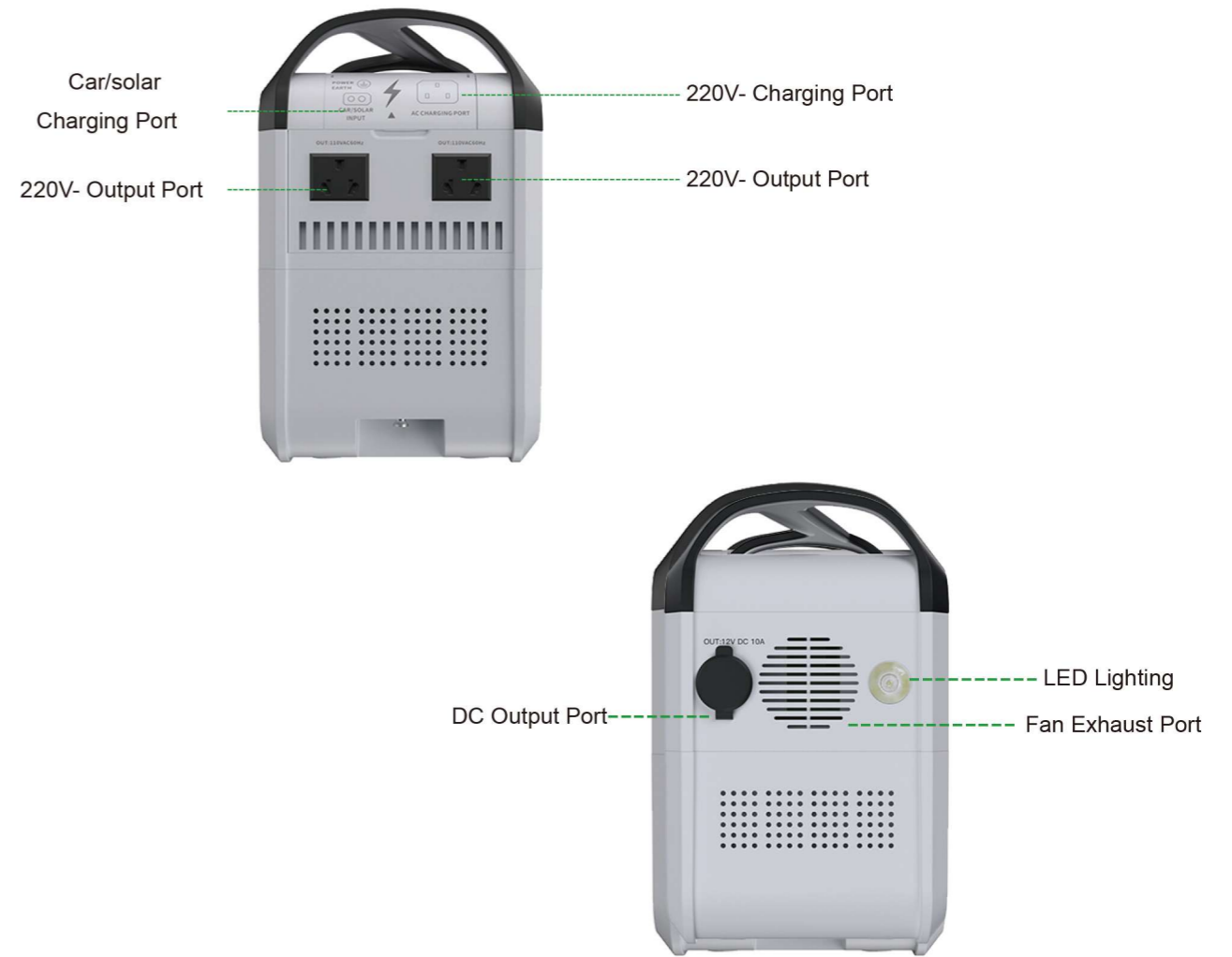


# ZD-PPS-800MINI

## Portable energy storage Power station



### — Key Function

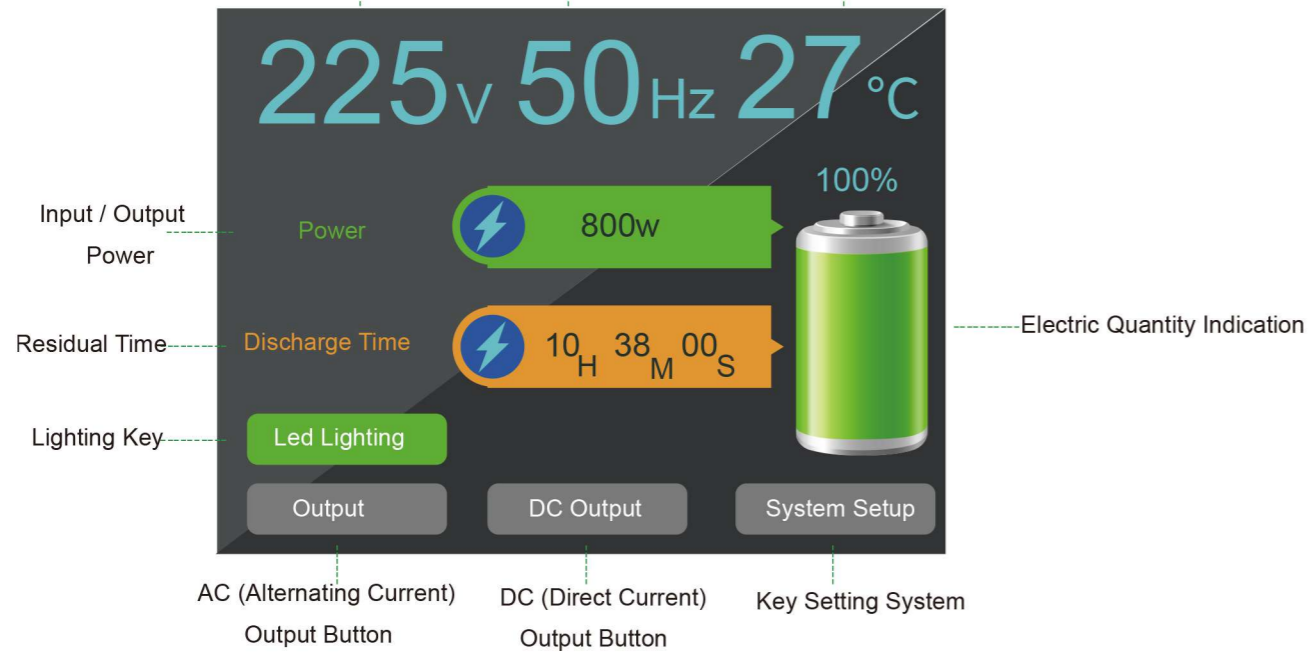


### —Product Features

- Support solar panel charging: 12-30V/3A (photovoltaic charging).
- High performance, high safety and high efficiency lithium battery.
- Under-voltage, over-current, over-temperature, short circuit, overcharge, over-discharge and other system protection functions.
- AC 110C or 220C, DC 5V/9V/12V/15V and other voltage outputs.
- Support QC3.0 fast charge and output function.
- Removable battery, easy to replace when the battery is used up.



AC Output Voltage AC Voltage Frequency Equipment Temperature



– Rated Power

Product Model		ZD-PPS-800MINI	ZD-PPS-800PRO	ZD-PPS-K1000
Battery Capacity		288Wh	748.8Wh	748.8Wh
Peak Power		800W	800W	1000W
Battery Type		Ternary Lithium	Ternary Lithium	Ternary Lithium
Input	Car Charging Input	12V-10A.120W		
	Solar Energy Input	10-24V-MAX240W	10-30V-MAX400W	
	AC Power Input	220-230V 50/60Hz 2.5A		
Output	AC	220V-50Hz Total Power 800W	220V-50Hz Total Power 1000W	
	USB-A	5V-3A, 9V-3A, 12V-3A, 20V-3A		
	USB	C1	5V-3A, 9V-3A, 12V-3A, 15V-3A, 20V-5A	
		C2	USB-A+USB-C Simultaneous Output: 5V-4A	
Wireless Charging Output		5V-1A, 7.5V-1A, 9V-1.12A, 9V-1.66A		
Cycle Life		3000+		
Weight		6kg	8kg	8kg
Protection Type		High temperature, Low temperature, Over discharge, Over charge, Overload, Over current and short circuit protection		
Size		280*165*235mm	280*165*280mm	280*165*280mm

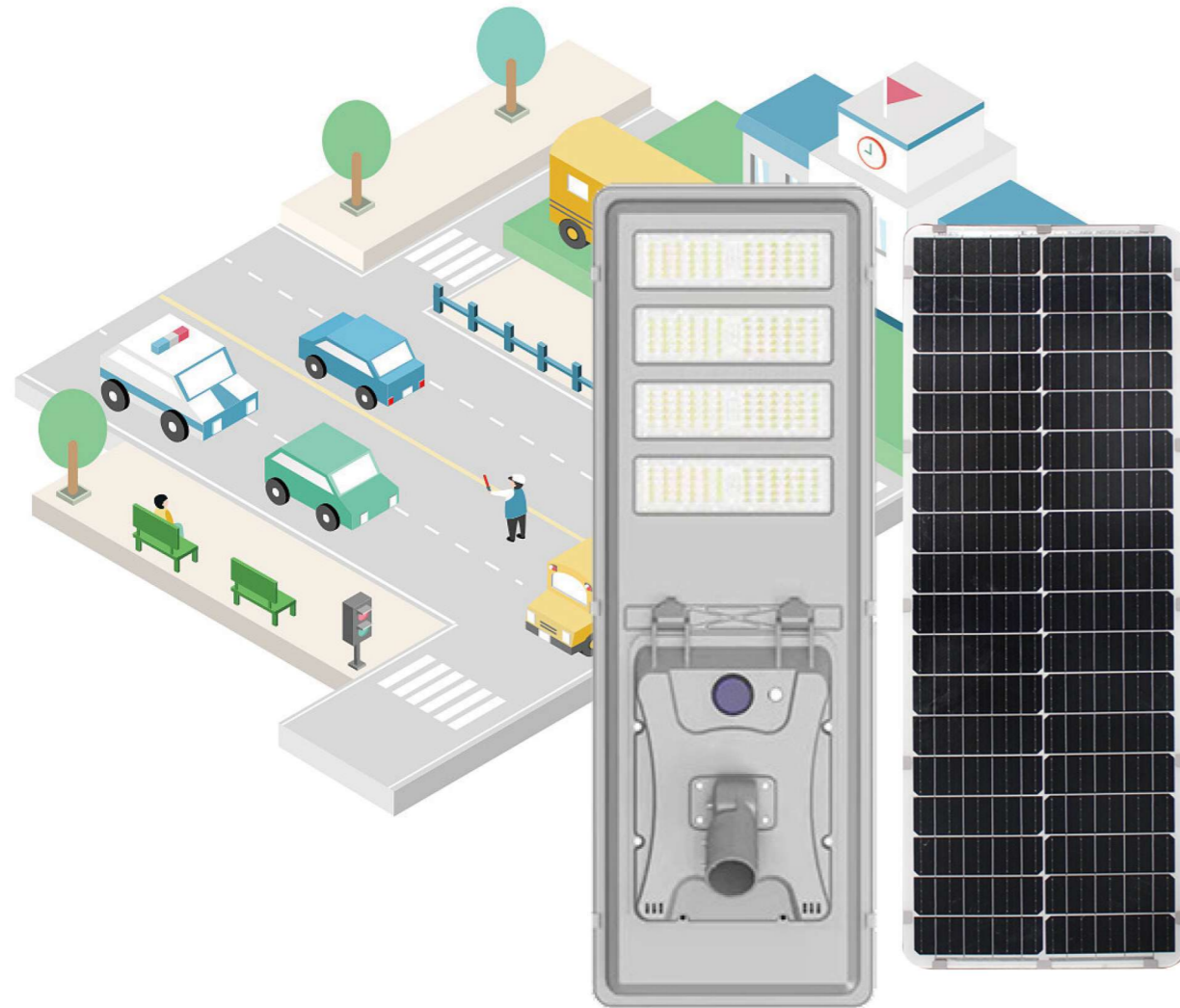
– Application Scenario

Application of tourism, self-driving, home appliances, medical care, outdoor fishing and other places.





# Solar Street Light LKD Series



## – Product Features

- ADC12 Die-casting aluminum heat sink with thickened anti-corrosion paint treatment.
- Easy to install, no additional wiring, saving electricity costs.
- Direct light design, high light transmission PC lens which rate above 90% , the whole light efficiency up to 200LM/W.
- Genuine imported led chip, high luminous efficiency with low light decay, 50000 hours lifespan.
- Removable battery compartment design, easy for maintenance.
- Battery management system and intelligent control, auto on/off.

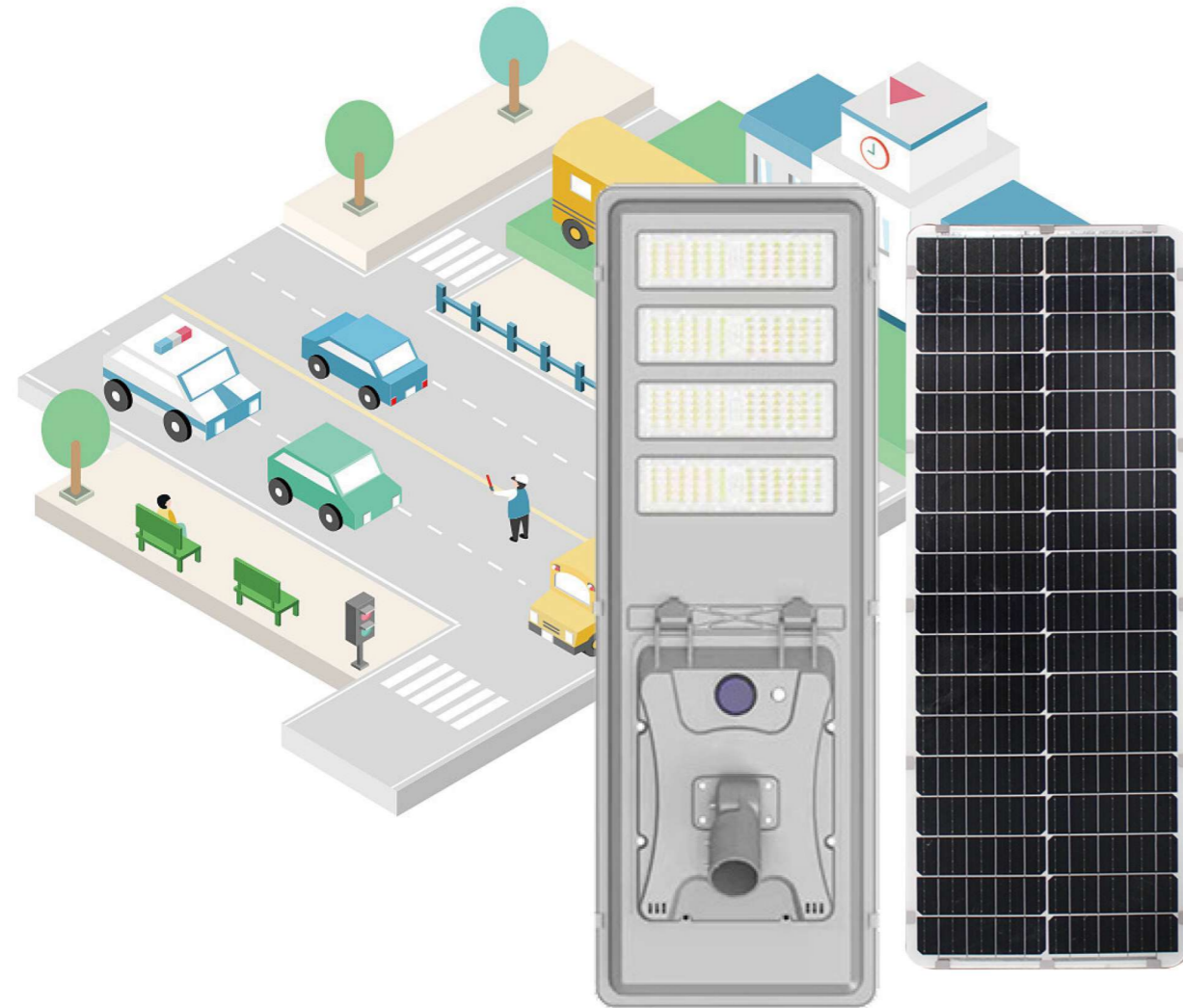
## – Product Structure



## – Parameter

Model	LKD-15W	LKD-20W	LKD-30W	LKD-40W	LKD-60W	LKD-80W
Power	15W	20W	30W	40W	60W	80W
Solar Panel	6V/25W	6V/35W	6V/50W	18V/60W	18V/80W	18V/100W
Battery	LiFePO4 3.2V,24Ah	LiFePO4 3.2V,32Ah	LiFePO4 3.2V,72Ah	LiFePO4 3.2V,100Ah	LiFePO4 12.8V,36Ah	LiFePO4 12.8V,42Ah
LED	Philips2835 100pcs	Philips2835 180pcs	Philips2835 240pcs	Philips2835 180pcs	Philips2835 240pcs	Philips2835 300pcs
Efficiency	210LM/W			200LM/W		
Luminous Flux	3150LM	4200LM	6600LM	8000LM	12000LM	16000LM
Controller	PWM/MPPT					
Lighting Mode	PIR Sensor / Microwave induction / Time control / Auto on-off					
Discharge Time	Induction Mode >48h, Full Power >14h					
Size	552*282*130mm	657*325*130mm	860*350*130mm	887*400*280mm	1160*400*280mm	1435*400*280mm

# Solar Street Light LKD Series



## – Product Features

- ADC12 Die-casting aluminum heat sink with thickened anti-corrosion paint treatment.
- Easy to install, no additional wiring, saving electricity costs.
- Direct light design, high light transmission PC lens which rate above 90% , the whole light efficiency up to 200LM/W.
- Genuine imported led chip, high luminous efficiency with low light decay, 50000 hours lifespan.
- Removable battery compartment design, easy for maintenance.
- Battery management system and intelligent control, auto on/off.

## – Product Structure



## – Parameter

Model	LKD-15W	LKD-20W	LKD-30W	LKD-40W	LKD-60W	LKD-80W
Power	15W	20W	30W	40W	60W	80W
Solar Panel	6V/25W	6V/35W	6V/50W	18V/60W	18V/80W	18V/100W
Battery	LiFePO4 3.2V,24Ah	LiFePO4 3.2V,32Ah	LiFePO4 3.2V,72Ah	LiFePO4 3.2V,100Ah	LiFePO4 12.8V,36Ah	LiFePO4 12.8V,42Ah
LED	Philips2835 100pcs	Philips2835 180pcs	Philips2835 240pcs	Philips2835 180pcs	Philips2835 240pcs	Philips2835 300pcs
Efficiency	210LM/W			200LM/W		
Luminous Flux	3150LM	4200LM	6600LM	8000LM	12000LM	16000LM
Controller	PWM/MPPT					
Lighting Mode	PIR Sensor / Microwave induction / Time control / Auto on-off					
Discharge Time	Induction Mode >48h, Full Power >14h					
Size	552*282*130mm	657*325*130mm	860*350*130mm	887*400*280mm	1160*400*280mm	1435*400*280mm



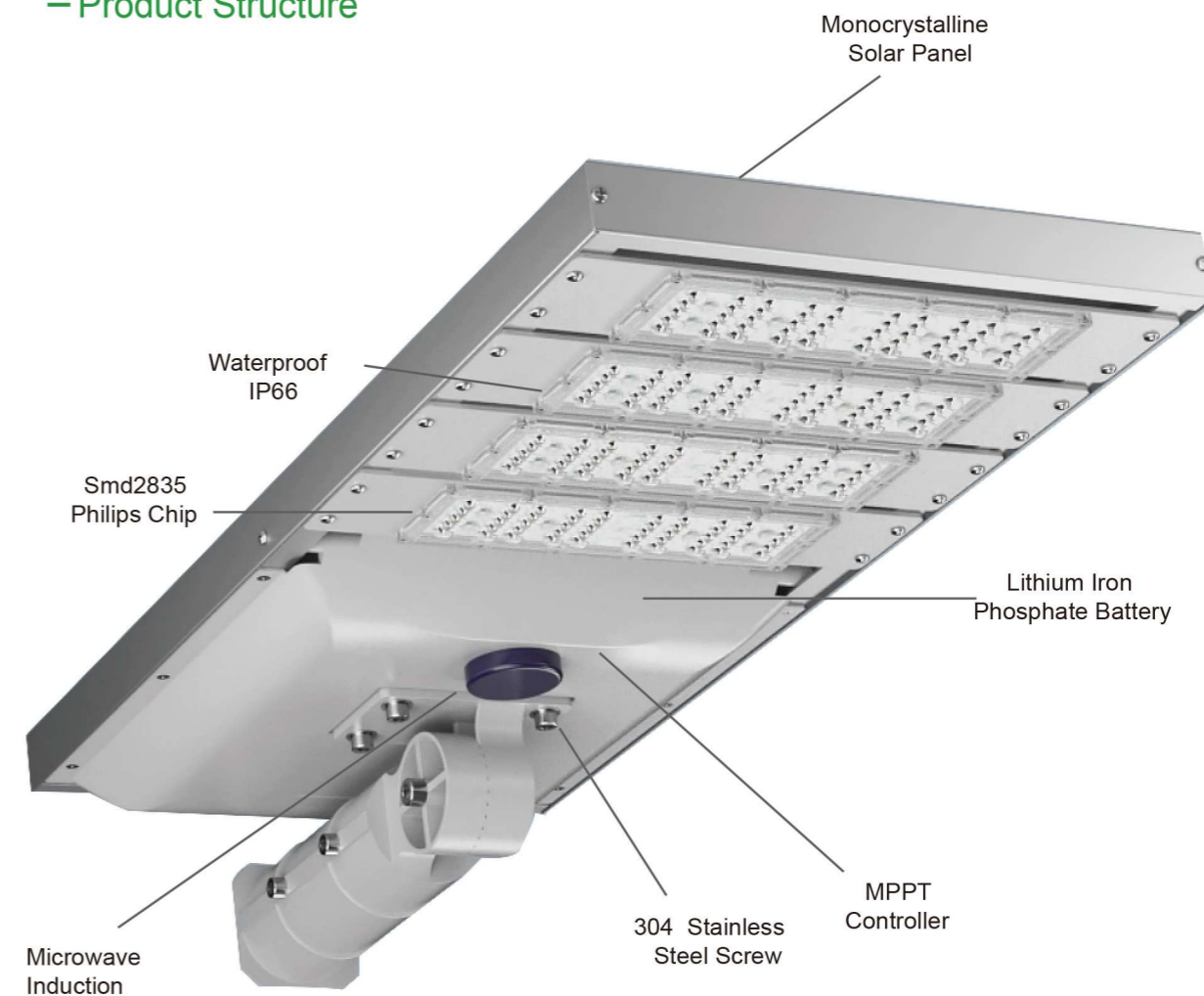
# Solar Street Light LKE Series



## —Product Features

- Hollow shell design, better heat dissipation, extend lifetime.
- Professional light distribution design makes the lights irradiation area more uniform.
- All in one design makes transportation, installation & maintenance are more economical and simple.
- No additional wiring required, saving money; multiple mounting brackets: tube mounted, arm mounted.
- With battery management system and intelligent control, auto on/off.

## — Product Structure



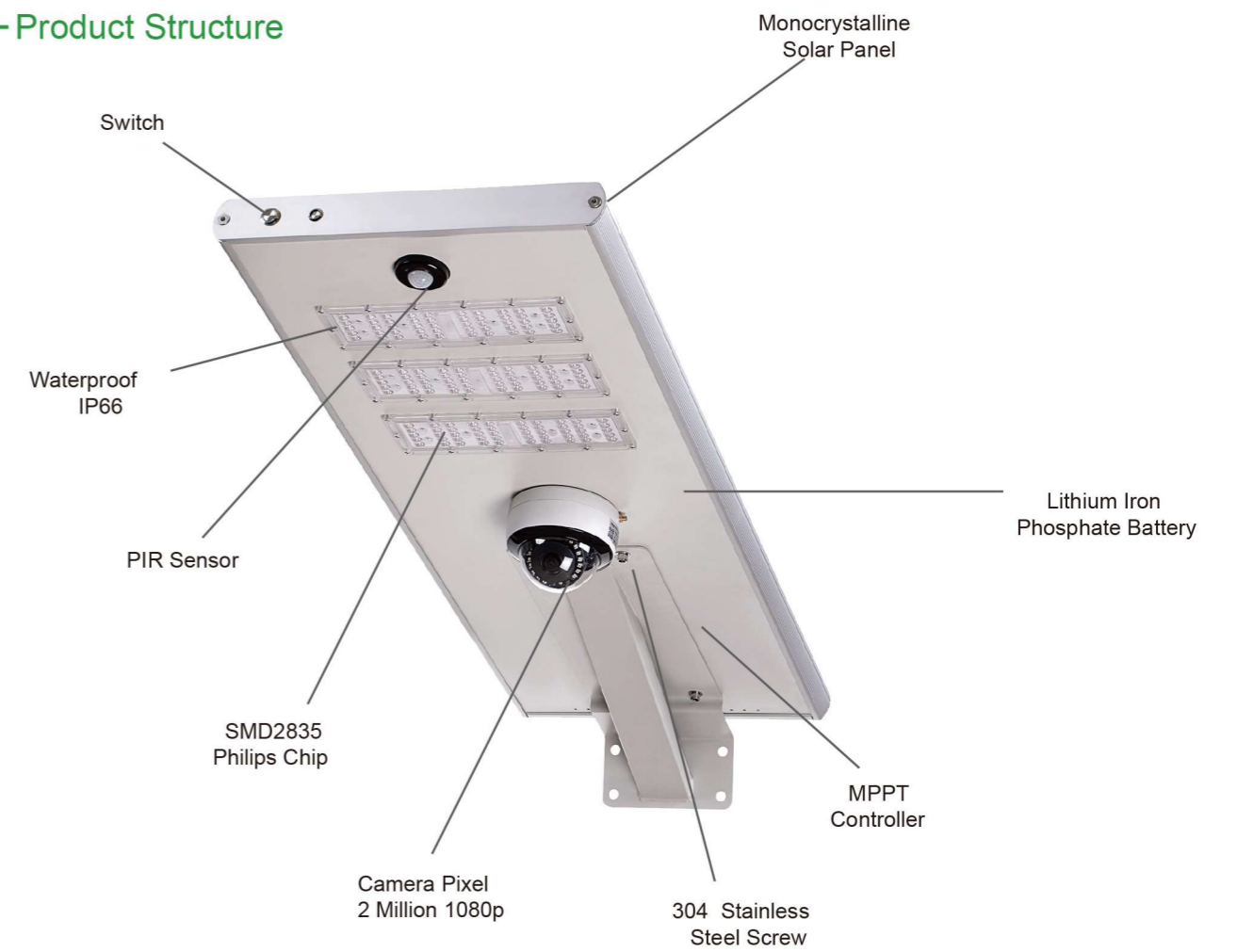
## — Parameter

Model	LKE-20W	LKE-30W	LKE-40W	LKE-60W	LKE-80W
Power	20W	30W	40W	60W	80W
Solar Panel	6V/35W	6V/50W	18V/60W	18V/80W	18V/100W
Battery	LiFePO4 3.2V,32Ah	LiFePO4 3.2V,72Ah	LiFePO4 3.2V,100Ah	LiFePO4 12.8V,36Ah	LiFePO4 12.8V,42Ah
LED	Philips2835 100pcs	Philips2835 150pcs	Philips2835 200pcs	Philips2835 250pcs	Philips2835 300pcs
Efficiency	210LM/W		200LM/W		
Luminous Flux	4200LM	6600LM	8000LM	12000LM	16000LM
Controller	PWM/MPPT				
Lighting Mode	PIR Sensor / Microwave induction / Time control / Auto on-off				
Discharge Time	Induction Mode > 48h, Full Power > 14h				
Size	635*346*65mm	835*346*65mm	1003*346*65mm	1315*346*65mm	1655*346*65mm

# Solar Street Light LK- Monitoring Series



## – Product Structure



## – Parameter

Model	LK-30W	LK-40W	LK-50W	LK-60W	LK-80W	LK-100W
Power	30W	40W	50W	60W	80W	100W
Solar Panel	18V/50W	18V/60W	18V/70W	18V/90W	18V/110W	18V/120W
Battery	LiFePO4 12.8V,24Ah	LiFePO4 12.8V,30Ah	LiFePO4 12.8V,32Ah	LiFePO4 12.8V,36Ah	LiFePO4 12.8V,42Ah	LiFePO4 24V,30Ah
LED	Philips2835 100pcs	Philips2835 150pcs	Philips2835 150pcs	Philips2835 150pcs	Philips2835 200pcs	Philips2835 250pcs
Efficiency	170LM/W					
Camera Pixel	2 million 1080p					
Focal Distance	3.6mm/6mm optional					
Conect	WIFI APP					
Controller	PWM/MPPT					
Size	840*368*45mm	1000*368*45mm	1140*368*45mm	1000*528*50mm	1220*528*50mm	1310*528*50mm

## – Product Features

- 6063 Die-cast aluminum with thickened anti-corrosion spray paint treatment.
- Direct light design, high light transmission PC lens which rate above 90% , the whole light efficiency up to 170LM/W.
- No additional wiring required, saving money; multiple mounting brackets: tube mounted, arm mounted, etc.
- Adopt plus HD camera design, support WIFI and APP, meet different customer needs.
- With battery management system and intelligent control, auto on/off.



– Case Presentation



– Application Scenario

Apply to parks, villas, highways, factories, tourist attractions, parking lots and other places.

