

Distributed grid-connected system
Small PV power supply system
Multi-functional power complementary system



Grid-connected
PV power
system

Grid connected PV system is composed of PV panel, grid connected inverter, Metering device and the power distribution box



Off-grid PV
power
system

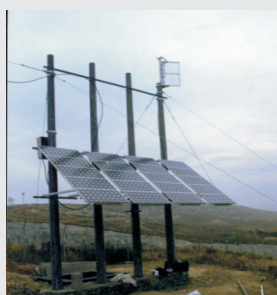
Off-grid PV system is composed of PV panel, charge controller, inverter, battery.



APPLICATION



PV power system is composed of PV panel, charge controller, inverter, battery, power distribution box and etc. It can provide user DC/AC power independently, with the advantage of small space occupation, flexible configuration, instant use, simple operation, etc.



GD-OFFS520

MAIN COMPONENT

Name	Model	QTY	Total Capacity
Module	ZKX-260P-24	2	520W
Con-inverter	500-24	1	500W
Battery	12V/200Ah	2	4.8kWh

Daily output 1.6kWh

Assume insolation incident on a horizontal surface is 4.5 kWh/m²/day

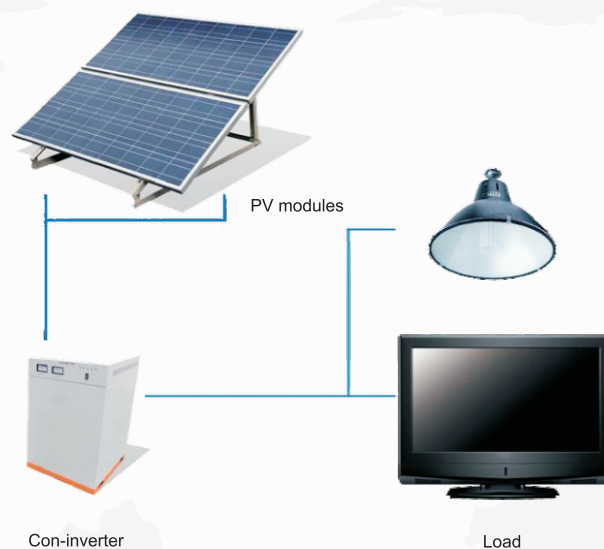
MODULE PARAMETER

Module model	ZKX-260P-24
Open Circuit Voltage (V)	37.85
Optimum Operating Voltage (V)	30.73
Short Circuit Current (A)	8.92
Maxim Power Current (A)	8.46
Maximum Power at STC (W)	260
Module Efficiency (%)	15.98
STC: Irradiance 1000W/ m ² , Temperature 25℃, AM=1.5	

CON-INVERTER PARAMETER

Rated Capacity (KVA)		0.5
DC Input	Rated voltage (V)	24
	Low voltage protection (V)	21.6
	Low voltage recovery (V)	26.4
	Overvoltage (V)	35
PV Input	Overvoltage recovery (V)	33
	Rated current(A)	15
	Charging route	1
	Overcharge protection (V)	29
AC Output	Overcharge recovery (V)	27
	Lightning protection	Varistor
	Rated voltage (V)	220
	Rated frequency	50Hz
AC Output	Output wave type	Sine wave
	Voltage-stabilized precision	220V±3%
	Frequency stability precision	50Hz ±0.1%
	THD	≤3% (Linear load)
Peak efficiency		≥95%
Working environment		Elevation ≤5000m; -10~+45℃; 95%RH

DIGRAM



RECOMMENDED LOAD

- >Energy-saving lamp (9W), 4sets, 4hours/day
- >TV & IRD (200W), 1set, 4hours/day
- >DVD player (40W), 1set, 4hours/day
- >Fan1(30W), 1set, 8hours/day

ADVANTAGE

- >Green and sustainable
- >Safe, quiet and stable
- >No pollution
- >Easy installation, convenient operation

PACKAGE

Name	Dimension (mm)	Quantity	Weight (kg)
Module	1956*992*50	2	52
Con-inverter	133*400*482	1	17
Battery	522*240*218	2	118
Bracket	8m	1	16
Cable	50m	1	4
Manual		1	-

Packaging specification refers to the actual product.

Note: The package can be designed according to customer's special requirement.

GD-OFFS3120

MAIN COMPONENT

Name	Model	QTY	Total Capacity
Module	ZKX-260P-24	12	3120W
Con-inverter	3000-48	1	3000W
Battery	2V/600Ah	4	28.8kWh

Daily output 6kWh

Assume insolation incident on a horizontal surface is 4.5 kWh/m²/day

MODULE PARAMETER

Module model	ZKX-260P-24
Open Circuit Voltage (V)	37.85
Optimum Operating Voltage (V)	30.73
Short Circuit Current (A)	8.92
Maxim Power Current (A)	8.46
Maximum Power at STC (W)	260
Module Efficiency (%)	15.98
STC: Irradiance 1000W/ m ² , Temperature 25℃, AM=1.5	

CON-INVERTER PARAMETER

Rated Capacity (KVA)		3
DC Input	Rated voltage (V)	48
	Low voltage protection (V)	42
	Low voltage recovery (V)	51
	Overvoltage (V)	80
PV Input	Overvoltage recovery (V)	75
	Rated current(A)	40
	Charging route	1
	Overcharge protection (V)	58
By Pass Input	Overcharge recovery (V)	54
	Lightning protection	Varistor
	Bypass input voltage(V)	220±15%
	Frequency (Hz)	50
AC Output	Switching mode (Optional)	00、21、22
	Switching time (ms)	≤4
	Rated voltage (V)	220
	Rated frequency	50Hz
	Output wave type	Sine wave
	Voltage-stabilized precision	220V±3%
Frequency stability precision		50Hz ±0.1%
THD		≤3% (Linear load)
Peak efficiency		≥95%
Working environment		Elevation ≤5000m; -10~+45℃; < 90%RH

DIGRAM



RECOMMENDED LOAD

- > Energy-saving lamp (9W), 6sets, 4hours/day
- > TV & IRD (200W), 1set, 4hours/day
- > DVD player (40W), 1set, 4hours/day
- > Fan1(30W), 1set, 8hours/day
- > Refrigerator(140W), 1set, 24hours/day

ADVANTAGE

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PACKAGE

Name	Dimension (mm)	Quantity	Weight (kg)
Module	1956*992*50	8	208
Con-inverter	450*550*800	1	38
Battery	520*269*220	4	272
Bracket	27m	1	64
Cable	50m	1	4
Manual		1	-

Packaging specification refers to the actual product.

Note: The package can be designed according to customer's special requirement.

GD-OFFS5200

MAIN COMPONENT

Name	Model	QTY	Total Capacity
Module	ZKX-260P-24	2	5200W
Con-inverter	5000-48	1	5000W
Battery	2V/1000Ah	24	48kWh

Daily output 13kWh

Assume insolation incident on a horizontal surface is 4.5 kWh/m²/day

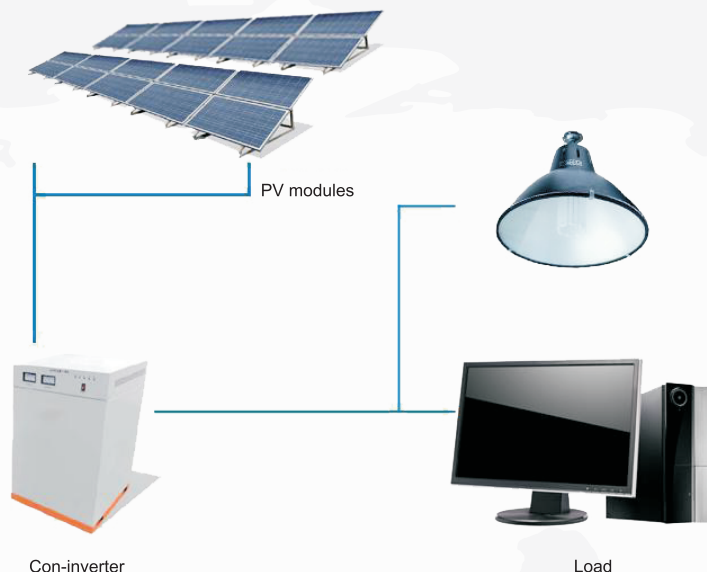
MODULE PARAMETER

Module model	ZKX-280P-24
Open Circuit Voltage (V)	37.85
Optimum Operating Voltage (V)	30.73
Short Circuit Current (A)	8.92
Maxim Power Current (A)	8.46
Maximum Power at STC (W)	260
Module Efficiency (%)	15.98
STC: Irradiance 1000W/ m ² , Temperature 25℃, AM=1.5	

CON-INVERTER PARAMETER

Rated Capacity (KVA)		2
DC Input	Rated voltage (V)	48
	Low voltage protection (V)	42
	Low voltage recovery (V)	51
	Overvoltage (V)	58.4
	Overvoltage recovery (V)	66
PV Input	Rated current(A)	50
	Charging route	2
	Overcharge protection (V)	58.4
	Overcharge recovery (V)	56
	Lightning protection	Varistor
By Pass Input	Bypass input voltage(V)	220±15%
	Frequency (Hz)	50
	Switching mode (Optional)	00、21、22
	Switching time (ms)	≤4
	Rated voltage (V)	220
AC Output	Rated frequency	50Hz
	Output wave type	Sine wave
	Voltage-stabilized precision	220V ± 3%
	Frequency stability precision	50Hz ± 0.1%
	THD	≤3% (Linear load)
	Peak efficiency	≥95%
	Working environment	Elevation ≤5000m; -10~+45℃; 95%RH

DIGRAM



RECOMMENDED LOAD

- > Energy-saving lamp (9W), 10sets, 4hours/day
- > TV & IRD (200W), 1set, 8hours/day
- > DVD player (40W), 1set, 4hours/day
- > Fan1(30W), 2set, 8hours/day
- > Refrigerator(140W), 1set, 24hours/day
- > Washing machine (300W), 1set, 3hours/day
- > Induction cooker (1500W), 1set, 2hours/day
- > Computer (350W), 1set, 4hours/day

ADVANTAGE

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PACKAGE

Name	Dimension (mm)	Quantity	Weight (kg)
Module	1956*992*50	18	468
Con-inverter	500×550×1000	1	76
Battery	471×171×330	24	1452
Bracket	61m	1	144
Cable	50m	1	4
Manual		1	-

Packaging specification refers to the actual product.

Note: The package can be designed according to customer's special requirement.

GD-ONS3000

MAIN COMPONENT

Name	Model	QTY	Total Capacity
Module	ZKX-260P-24	12	3120W
Inverter	3000W	1	3000W

Daily output 10.8kWh

Assume insolation incident on a horizontal surface is 4.5 kWh/m²/day

MODULE PARAMETER

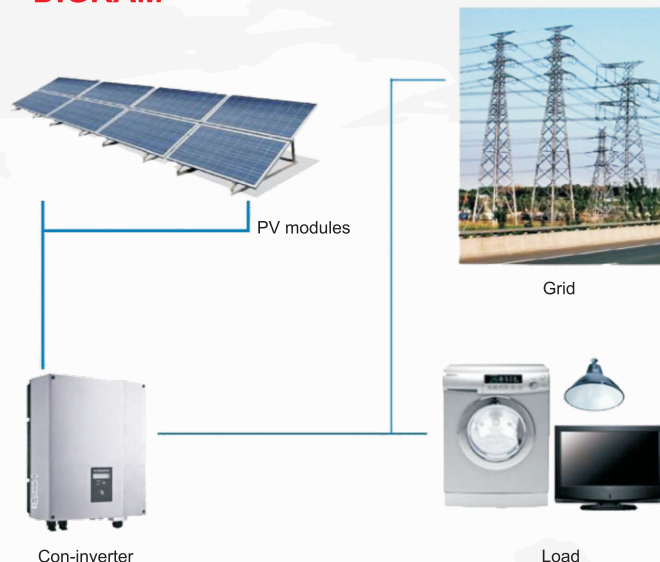
Module model	ZKX-260P-24
Open Circuit Voltage (V)	37.85
Optimum Operating Voltage (V)	30.73
Short Circuit Current (A)	8.92
Maxim Power Current (A)	8.46
Maximum Power at STC (W)	260
Module Efficiency (%)	15.98

STC: Irradiance 1000W/ m², Temperature 25°C, AM=1.5

INVERTER PARAMETER

Rated Power (W)		3000
DC Input	Maximum input power (W)	3500
	Maximum input voltage (V)	500
	Full Load MPP voltage range (V)	160-450
	MPPT voltage range (V)	80-500
	Boot voltage/ Shutdown voltage (V)	100/70
	Maximum parallel string	2
	MPP tracking route	2
AC Output	Maximum input current (A)	10/10
	Rated output power (W)	3000
	Maximum output power (W)	3000
	Maximum output current (A)	13.6
	Utility voltage range (V)	180-280
	Utility frequency range (Hz)	50Hz, 60Hz; ±5Hz
	COSφ	> 0.99
	THDI	< 3%
	AC type	Single phase
	Efficiency	97.6%
Working environment		Elevation ≤ 5000m; -25~+60°C; 0~100%RH

DIGRAM



ADVANTAGE

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PACKAGE

Name	Dimension (mm)	Quantity	Weight (kg)
Module	1640*992*40	12	228
Inverter	400*330*166	1	
DB Box	483*170*240	1	
Bracket	Determined by the installation	1	*
Cable	400*400*200	1	
Manual		1	-

Packaging specification refers to the actual product.

Note: The package can be designed according to customer's special requirement.

GD-ONS5000

MAIN COMPONENT

Name	Model	QTY	Total Capacity
Module	ZKX-260P-24	20	5200W
Inverter	5000W	1	5000W

Daily output 18.72kWh

Assume insolation incident on a horizontal surface is 4.5 kWh/m²/day

MODULE PARAMETER

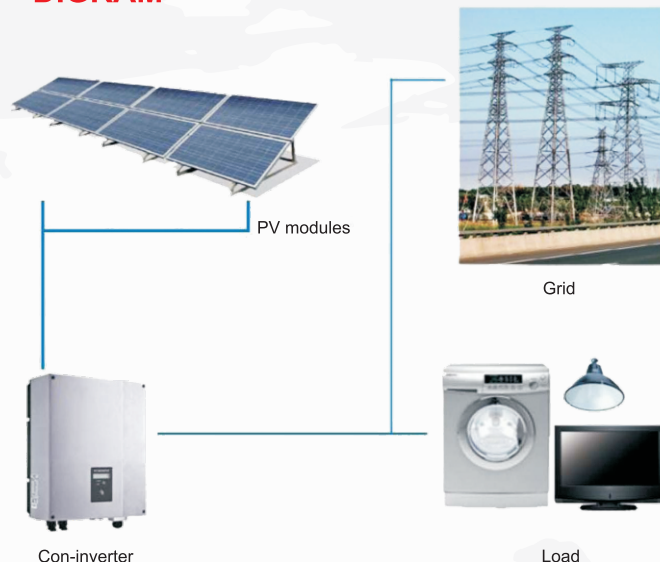
Module model	ZKX-260P-24
Open Circuit Voltage (V)	37.85
Optimum Operating Voltage (V)	30.73
Short Circuit Current (A)	8.92
Maxim Power Current (A)	8.46
Maximum Power at STC (W)	260
Module Efficiency (%)	15.98

STC: Irradiance 1000W/ m², Temperature 25°C, AM=1.5

INVERTER PARAMETER

Rated Power (W)		5000
DC Input	Maximum input power (W)	5750
	Maximum input voltage (V)	550
	Full Load MPP voltage range (V)	175-500
	MPPT voltage range (V)	80-550
	Boot voltage/ Shutdown voltage (V)	100/70
	Maximum parallel string	2
	MPP tracking route	2
AC Output	Maximum input current (A)	15/15
	Rated output power (W)	5000
	Maximum output power (VA)	5000
	Maximum output current (A)	22.7
	Utility voltage range (V)	180-280
	Utility frequency range (Hz)	50Hz, 60Hz; ±5Hz
	COSφ	> 0.99
	THDI	< 3%
	AC type	Single phase
	Efficiency	97%
Working environment		Elevation ≤ 5000m; -25~+60°C; 0~100%RH

DIGRAM



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PACKAGE

Name	Dimension (mm)	Quantity	Weight (kg)
Module	1640*992*40	20	380
Inverter	400*330*166	1	
DB Box	483*170*240	1	
Bracket	Determined by the installation	1	*
Cable	600*600*300	2	
Manual		1	-

Packaging specification refers to the actual product.

Note: The package can be designed according to customer's special requirement.