

GREEN WOWTIGER
SMART ENERGY STORAGE

wowtiger

SOLAR HOME SYSTEM

ENERGY STORAGE AND POWER SUPPLY



The specs provided in this brochure may differ from the product.
Please see the actual product for confirmation.



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GREEN WOWTIGER
SMART ENERGY STORAGE



ABOUT WOWTIGER

Founded in 2009, WOWTIGER with its sub-brand SINCHUM rapidly developed into a top LED driver manufacturer. After a decade of working and researching in the energy storage industry, WOWTIGER set out with a vision of providing the best energy solution with the most reliable and economical PV energy storage products and technologies, contributing to the vision of electricity for all and global energy revolution.

WOWTIGER focus on the research and innovation of distributed energy storage products and microgrid technology, with international advanced new energy energy storage technology and complete energy storage battery application solutions, WOWTIGER was leading in the area of integration of photovoltaic energy storage, off-grid two-way inverters , energy Internet management system, etc.. Provide customers with integrated services of scheme design, R&D, production, sales and after-sales of household/commercial photovoltaic energy storage systems, portable energy storage, and DC power storage.

WOWTIGER HQ was located in zhongshan city with a manufacturing center of 30,000 sqm from SMT to PACK and finished assembly workshop. WOWTIGER expanded the second manufacturing center of 15,000 sqm in jiangmen for full automatic PV modules production plant.

wowtiger

GREEN WOWTIGER
SMART ENERGY STORAGE



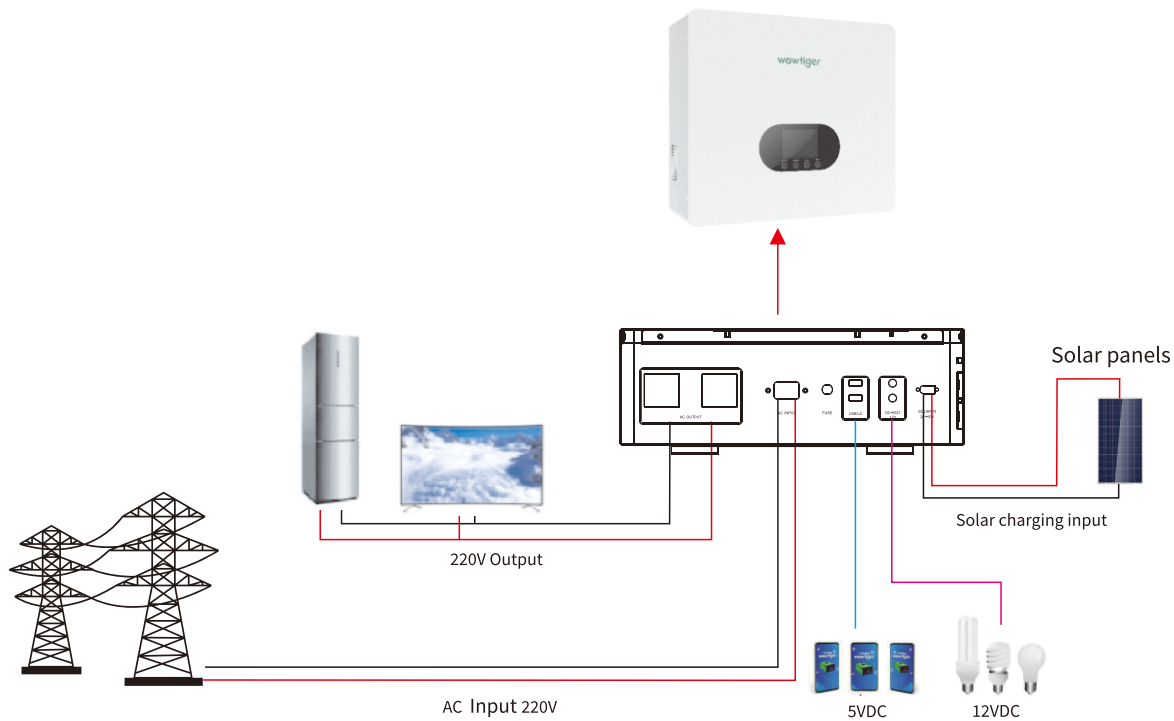


wall-mounted design
all-in-one solar system

>> Models:
ECO11



⚡ System connection



Product Specifications



Model		ECO11
Nominal Capacity/Energy		1040Wh
Input Parameter	Input power	Max1000W, 6A
	Charging voltage range	154~264VAC±5VAC 50/60Hz
	Bypass voltage range	184~264VAC±5VAC 50/60Hz
Output Parameter	Rated output power	800W
	Output waveform	Pure sine wave
	Power factor	1PF
	Rated output voltage (Vac)	230V
	Output frequency range (Hz)	50Hz / 60Hz
	Maximum efficiency	>93%
	DC5521 (*2)	12V/4A Max48W
	USB fast charging (* 2)	5V/9V/12V Max 18W
	Overload capacity(battery)	10min@105%~110% Load, 1min@110%~120% Load, 2s@130%~150% Load, 200ms@>150% Load
AC Charging Parameter	Maximum charging current	15A
Solar Charging Parameter	Controller type (PV)	MPPT
	PV input voltage range	28~60V
	Maximum PV input power	300W/10A
Specifications	Protection functions	Overdischarge protection, overcharge protection, overcurrent protection, overload protection, short circuit protection, high temperature protection, low temperature protection
	Working temperature range	-10°C-50°C
	Storage temperature range	-15°C~60°C
	Humidity range	20%~95% (No condensing)
	Noise level	≤50db
	Heat dissipation	Forced air cooling
	Product size (L*W*H) mm	370*325*135
	Packing size(L*W*H) mm	418*374*174
	Net weight (kg)	12.6
	Gross weight (kg)	13.8

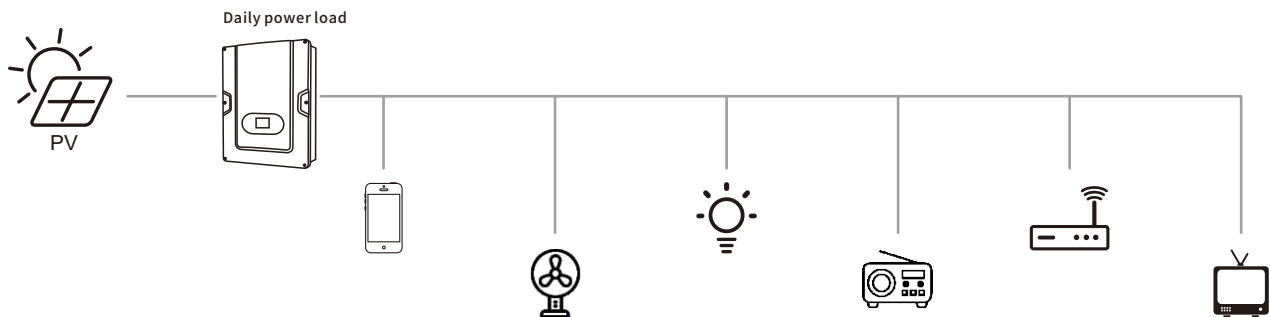


wall-mounted design
all-in-one solar system

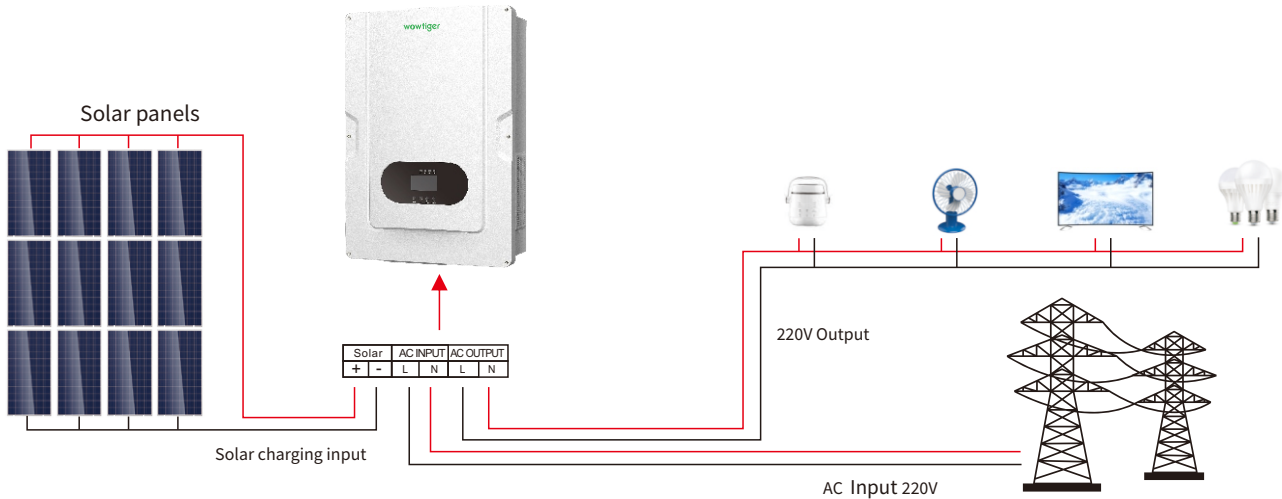
>> Models:
ECO25



Daily load



Solar system connection



Product Specifications



Model		ECO25
Nominal Capacity/Energy		2560WH
Utility Mode	Input Voltage	170~280Vac
	Frequency	40~70Hz, Default
	Overload/short circuit protection	The bypass circuit breaker (20 A)
	Maximum efficiency	99.5%
	Conversion time(bypass and inverter)	10mS
	Biggest bypass overload current	20A
Inverter Mode	Output voltage waveform	Pure sine wave
	Rated output power (W)	3KVA
	Power factor	P=0.8
	Rated output voltage (Vac)	208/220/230/240 Vac (Settable) Default 230V
	Output frequency range (Hz)	50.0 / 60.0 Hz (Settable) Default 50 Hz
	Maximum efficiency	>93%
	Overload Capacity	1min@102%~110% Load 10s@110%~130% Load 3s@130%~150% Load 0.2s@>150% Load
	Battery voltage	25.6V
	Compatible battery type	lithium electricity
Utility Charging	Maximum charging current(can be set)	50A
PV/Battery Charging	Type of controller (PV)	PWM
	Largest PV open circuit voltage	85V
	PV operating voltage range	30-80V
	Largest PV input current	50A
Biggest mixed charging current (PV+ AC)	Solar charging current range (can be set)	10~50A
	The biggest mixed charging current (can be set)	100A
Specifications	Protection functions	Over-voltage and low-voltage protection, overload protection, short-circuit protection and over-temperature protection of lithium batteries
	Working temperature range	-10°C-50°C
	Storage temperature range	-15~60°C
	Humidity range	20%~95% (No condensing)
	Noise Level	≤50db
	Heat dissipation	Forced air cooling
	Display mode	LCD
	Monitoring method (optional)	WiFi/ 4G
	Product size (L*W*H) mm	387*163*540
	Packing size(L*W*H) mm	655*497*278
	Net weight(kg)	27.5kg
	Gross weight(kg)	29kg

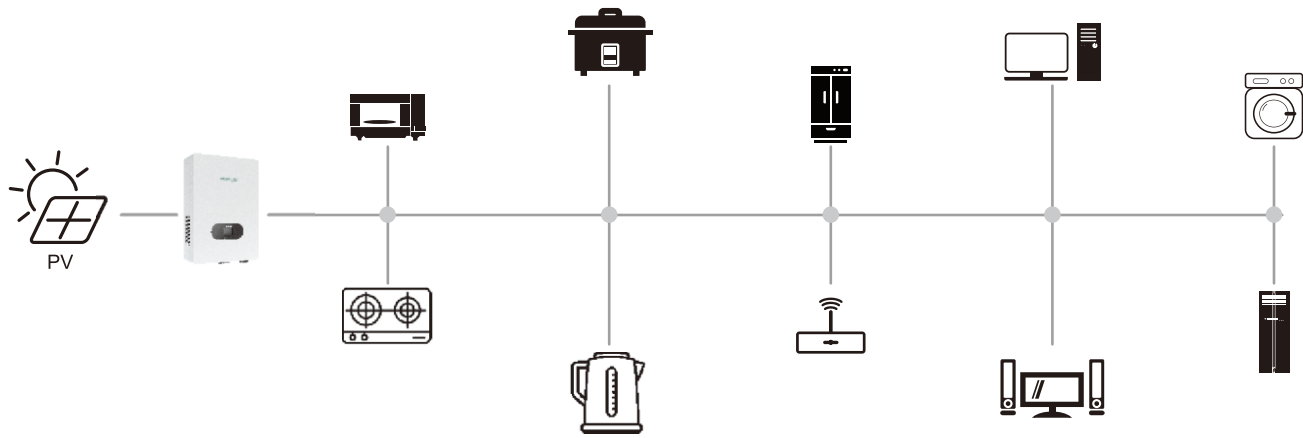


wall-mounted design
all-in-one solar system

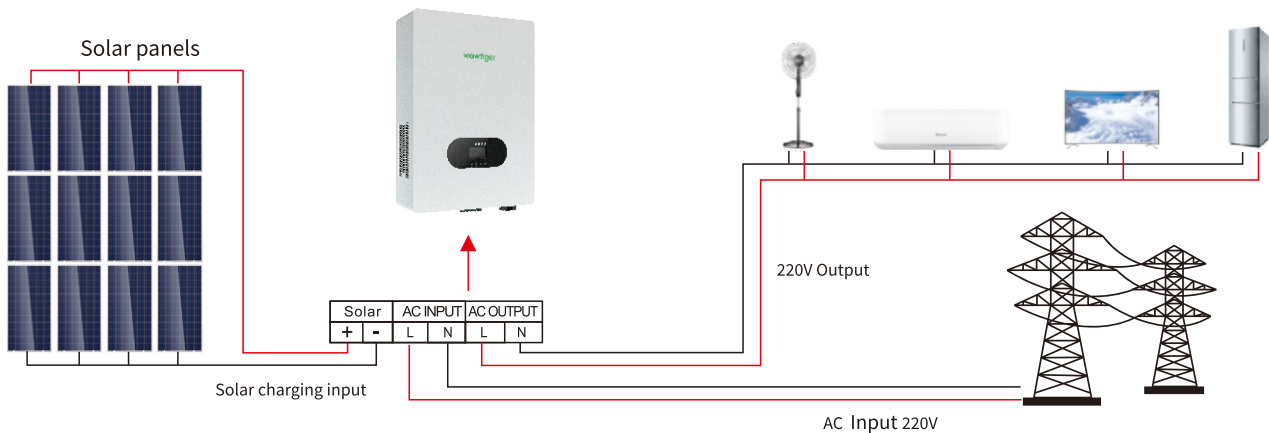
>> Models:
ECO28



Daily load



System connection



Product Specifications



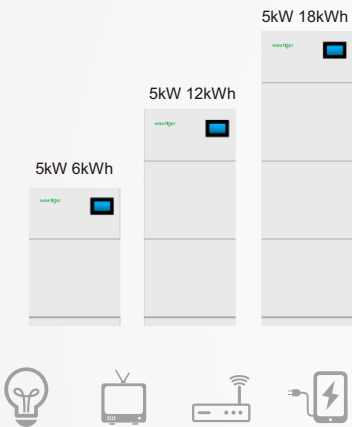
Model		ECO28
Nominal Capacity/Energy		3020Wh
Battery type		Lithium iron phosphate semi-solid
Utility Mode	Input Voltage	90~280V Settable (Appliance/Generator mode) 170~264V Settable (UPS mode)
	Frequency	40~70Hz Default
	Overload/short circuit protection	The bypass circuit breaker (20A)
	Maximum efficiency	≥99%
	Conversion time(bypass and inverter)	10mS
	Biggest bypass overload current	20A
	Output voltage waveform	Pure sine wave
Inverter Mode	Rated output power (W)	3KW
	Power factor	PF1.0
	Rated output voltage (Vac)	208/220/230/240 Vac (Settable) Default 230V
	Output frequency range (Hz)	50.0 / 60.0 Hz (Settable) Default 50 Hz
	Maximum efficiency	92.7% @24V
	Overload Capacity	1min@102%~110% Load 10s@110%~130% Load 3s@130%~150% Load 0.2s@>150% Load
	Battery voltage	25.6V
Utility Charging	Compatible battery type	Lead-acid/lithium electricity
	Maximum charging current(can be set)	2~100A
PV/Battery Charging	Type of controller (PV)	MPPT
	Largest PV open circuit voltage	500V
	PV operating voltage range	40~450V
	Largest PV input current	18A
	Largest PV power input	5000W
Biggest mixed charging current (PV+ AC)	Solar charging current range (can be set)	100A
	The biggest mixed charging current (can be set)	100A
Specifications	Protection functions	Over-voltage and low-voltage protection, overload protection, short-circuit protection and over-temperature protection of lithium batteries
	Working temperature range	-10°C-50°C
	Storage temperature range	-15~60°C
	Humidity range	20%~95% (No condensing)
	Noise Level	≤50db
	Heat dissipation	Forced air cooling
	Display mode	LCD
	Monitoring method (optional)	WiFi/ 4G
	Product size (L*W*H) mm	/
	Packing size(L*W*H) mm	/
	Net weight(kg)	/
	Gross weight(kg)	/



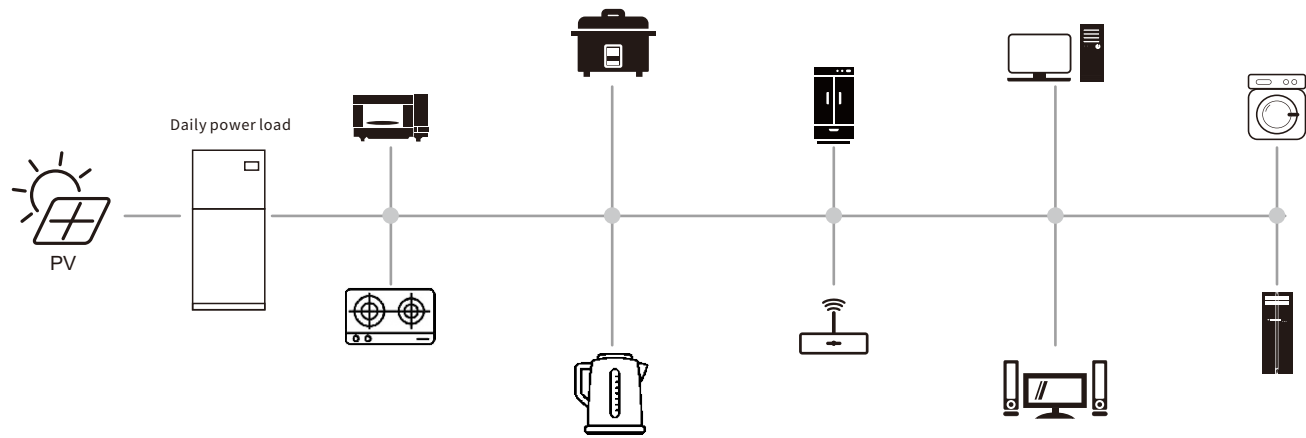
Solar Energy System

Floor or wall mounted design

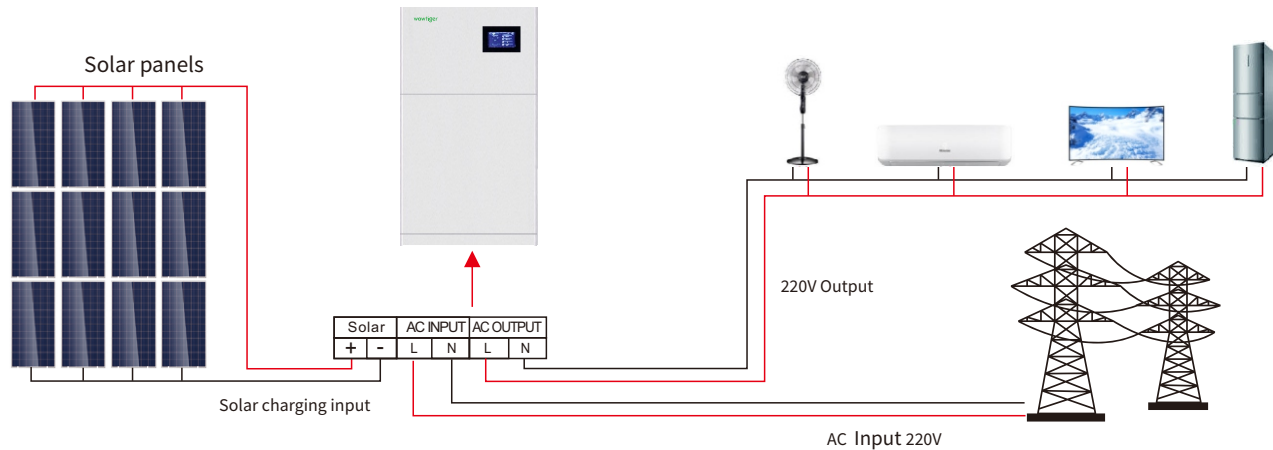
>> Models:
APOLO5K



Daily load



Solar system connection



Product Specifications



Model		APOLO5K		
Nominal Capacity/Energy		6kWH	12kWH	18kWH
Battery type		LFP Solid-State Battery		
Utility Mode	Input Voltage	170~280Vac		
	Frequency	40~70Hz, Default		
	Overload/short circuit protection	The bypass circuit breaker (40 A)		
	Maximum efficiency	99.5%		
	Conversion time(bypass and inverter)	10mS		
	Biggest bypass overload current	40A		
Inverter Mode	Output voltage waveform	Pure sine wave		
	Rated output power (W)	5KVA		
	Power factor	P=1. 0		
	Rated output voltage (Vac)	208/220/230/240 Vac (Settable) Default 230V		
	Output frequency range (Hz)	50.0 / 60.0 Hz (Settable) Default 50 Hz		
	Maximum efficiency	>94.5%		
	Overload Capacity	1min@102%~110% Load 10s@110%~130% Load 3s@130%~150% Load 0.2s@>150% Load		
	Battery voltage	51.2V		
	Compatible battery type	Lead-acid/lithium electricity		
	Utility Charging	Maximum charging current(can be set)		
PV/Battery Charging	Type of controller (PV)	MPPT		
	Largest PV open circuit voltage	500V		
	PV operating voltage range	120-430V		
	Largest PV input current	18A		
	Largest PV power input	5500W		
Biggest mixed charging current (PV+ AC)	Solar charging current range (can be set)	2~80A		
	The biggest mixed charging current (can be set)	80A		
Specifications	Protection functions	Over-voltage and low-voltage protection, overload protection, short-circuit protection and over-temperature protection of lithium batteries		
	Working temperature range	-10°C-50°C		
	Storage temperature range	-15~60°C		
	Humidity range	20%~95% (No condensing)		
	Noise Level	≤50db		
	Heat dissipation	Forced air cooling		
	Display mode	HD touch screen		
	Monitoring method (optional)	WiFi/ 4G		
	Product size (L*W*H) mm	Inverter size: 495*310*150.1 Battery size: 531.5*490.4*150.1	Inverter size: 495*310*150.1 Battery size: 2* (531.5*490.4*150.1)	Inverter size: 495*310*150.1 Battery size: 3* (531.5*490.4*150.1)
	Packing size(L*W*H) mm	Inverter packing: 538*420*196 Battery packing: 587.5*558.4*218	Inverter packing: 538*420*196 Battery packing: 2* (587.5*558.4*218)	Inverter packing: 538*420*196 Battery packing: 3* (587.5*558.4*218)
	Net weight(kg)	57kg	103kg	148kg
	Gross weight(kg)	60kg	108kg	155kg

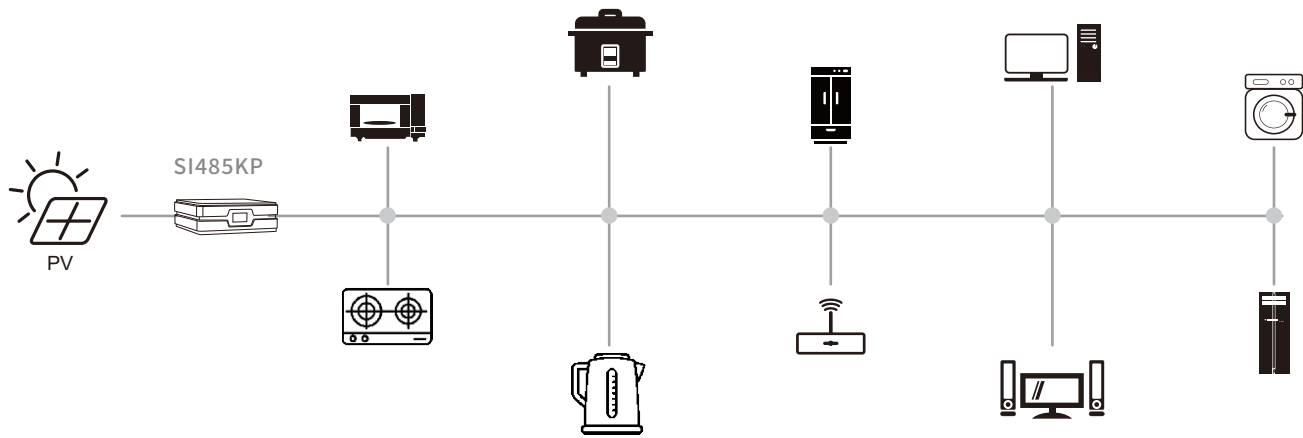
Solar Energy System

Stackable design

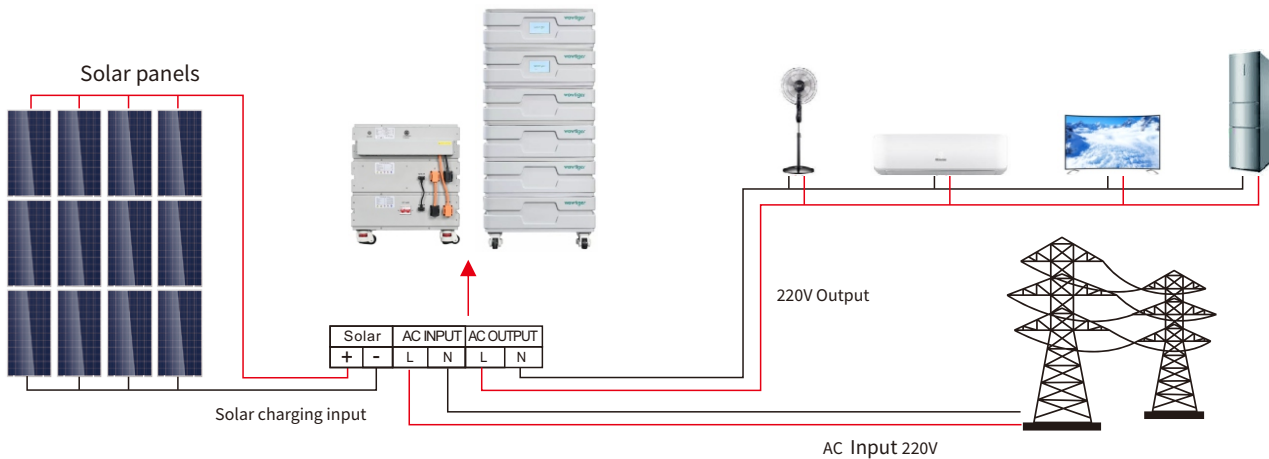
>> Models:
SI485KP



Daily load



Solar system connection



Product Specifications



Model		SI485KP
Parallel Connect	Max Parallel Connection Allowed	9 (Recommended number of parallel machines is less than 6)
Utility Mode	Input Voltage	170~280Vac
	Frequency	40~70Hz, Default
	Overload/short circuit protection	The bypass circuit breaker (40 A)
	Maximum efficiency	0.995
	Conversion time(bypass and inverter)	<10mS
	Biggest bypass overload current	40A
Inverter Mode	Output voltage waveform	Pure sine wave
	Rated output power (W)	5000W
	Power factor	1PF
	Rated output voltage (Vac)	208/220/230/240 Vac (Settable) Default 230V
	Output frequency range (Hz)	50.0 / 60.0 Hz (Settable) Default 50 Hz
	Maximum efficiency	>94.5%
	Overload Capacity	1min@102%~110% Load /10s@110%~130% Load/4s@130%~190% Load/200ms@>190% Load
	Battery voltage	48V / 51.2V
	Compatible battery type	Lead-acid/lithium electricity
Utility Charging	Maximum charging current(can be set)	80A
PV/Battery Charging	Type of controller (PV)	MPPT
	Largest PV open circuit voltage	500V
	PV operating voltage range	120-430V
	Largest PV input current	18A
	Largest PV power input	5500W
Biggest mixed charging current (PV+ AC)	Solar charging current range (can be set)	2~80A
	The biggest mixed charging current (can be set)	80A
Specifications	Protection functions	Over-voltage and low-voltage protection, overload protection, short-circuit protection and over-temperature protection of lithium batteries
	Working temperature range	-10°C-50°C
	Storage temperature range	-15~60°C
	Humidity range	20%~95% (No condensing)
	Noise Level	≤50db
	Heat dissipation	Forced air cooling
	Display mode	Hurdtuch, Sklin/Ryder optional
	Monitoring method (optional)	WiFi/ 4G
	Product size (L*W*H) mm	559.7*539*186
	Packing size(L*W*H) mm	600*595* 245
	Net weight(kg)	14.5kg
	Gross weight(kg)	16.5kg

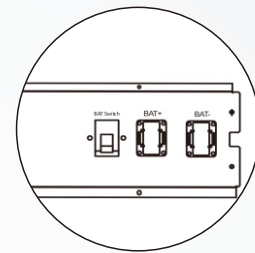
Solar Energy System

Lithium-ion battery modules

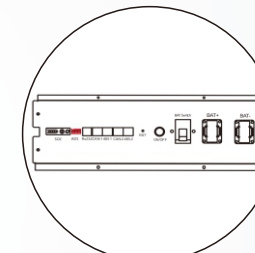
>> Models:

SD-SSL516H

SD-SSL516S



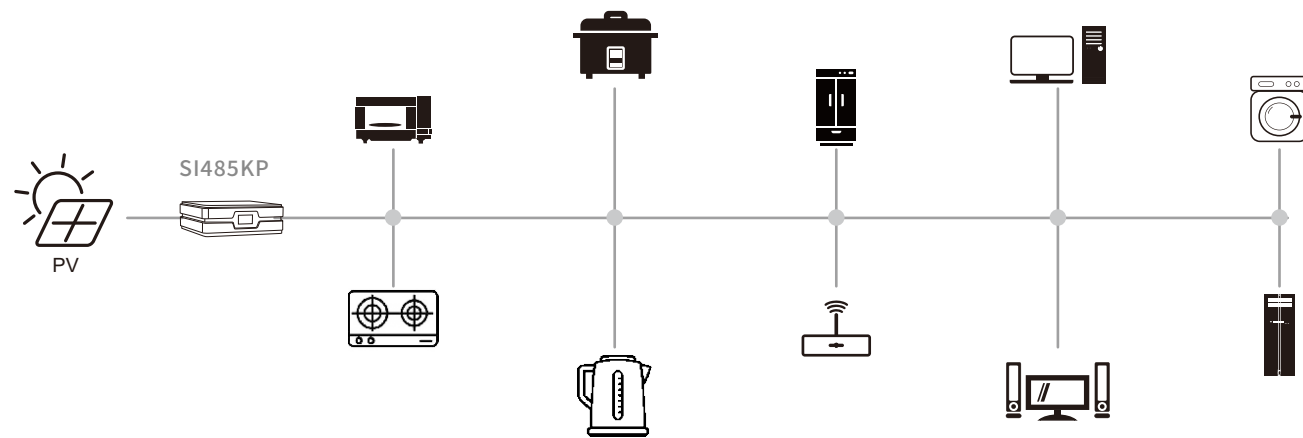
SD-SSL516H



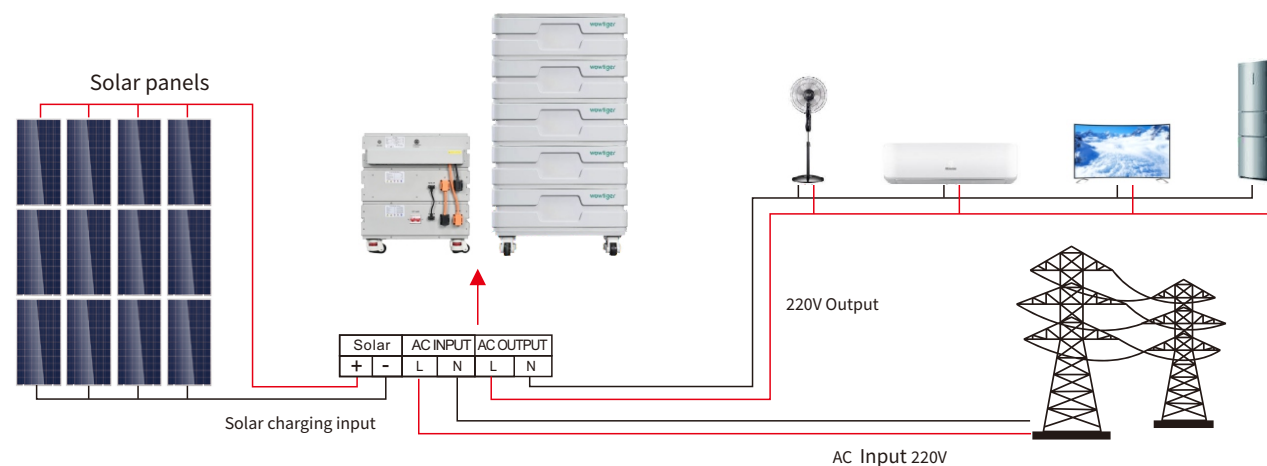
SD-SSL516S

Terminal hole bits

⚡ Daily load



⚡ Solar system connection



Product Specifications



Model	SD-SSL516H	SD-SSL516S
Rated Capacity	6144Wh	6144Wh
Cell Type	LFP Solid-State Battery	LFP Solid-State Battery
Cell Configuration	16S2P	16S2P
Rated Voltage	51.2V	51.2V
Operating Voltage Range	41.6~58.4V	41.6~58.4V
Maximum Continuous Discharge Current	120A/1C	100A/1C
Maximum Number Of Parallel Machines	6	16
Operating Temperature	0~55°C (Charged) -20~55°C (Discharged)	0~55°C (Charged) -20~55°C (Discharged)
Storage Temperature	-20~40°C(≤1 month)/0~35°C(≤1 year)	-20~40°C(≤1 month)/0~35°C(≤1 year)
Humidity	20%~95% (non-condensing)	20%~95% (non-condensing)
Elevation	<2000M	<2000M
Ingress Protection	IP20	IP20
Installation	stack	stack
Product Dimensions	540*518.7*186mm	540*518.7*186mm
Package Size	600*590*255mm	600*590*255mm
Net Weight	45KG	45KG
Gross Weight	50KG	50KG

Wall-mounted inverter

Solar controller integrated

>> Models:
HG2436L
HG4858H



Advantages



Supports smart shutdowns



Beautiful shape and easy



Supports DC arc pulling protection



Less than 10ms seamlessly enables
standby power

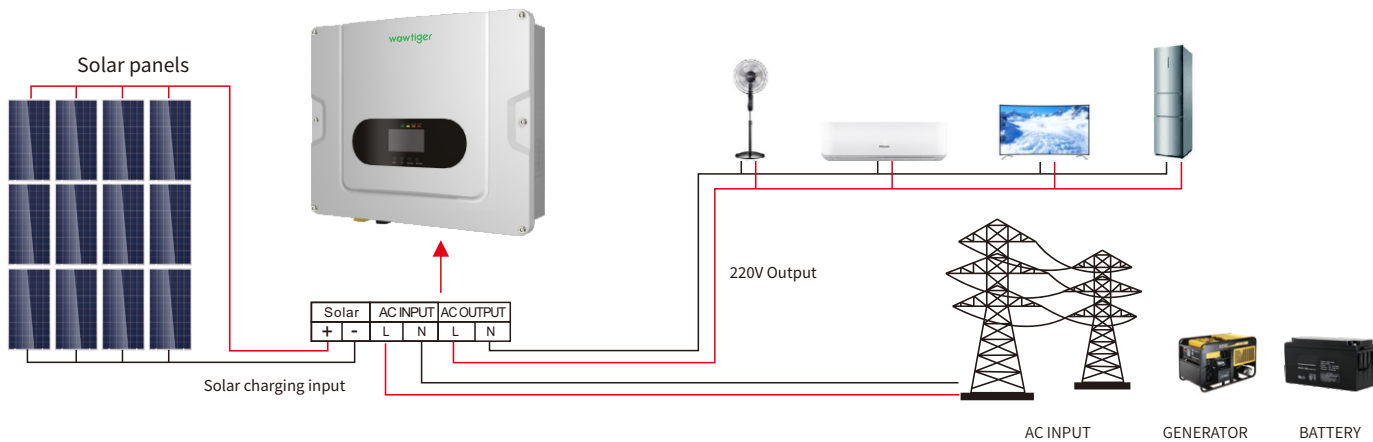


Good heat resistance
Application of environmental temperature is high
Up to + 60 ° C.



Light weight
Small volume, light weight.

Solar system connection



Product Specifications



Model		HG2436L	HG4858H
Parallel Connect	Max Parallel Connection Allowed	/	9
Utility Mode	Input Voltage	170~280Vac	
	Frequency	40~70Hz, Default	
	Overload/short circuit protection	The bypass circuit breaker (20 A)	The bypass circuit breaker (40 A)
	Maximum efficiency	99.5%	
	Conversion time(bypass and inverter)	10mS	
	Biggest bypass overload current	20A	40A
Inverter Mode	Output voltage waveform	Pure sine wave	
	Rated output power (W)	3KVA	5000W
	Power factor	P=0.8	P=1.0
	Rated output voltage (Vac)	208/220/230/240 Vac (Settable) Default 230V	
	Output frequency range (Hz)	50.0 / 60.0 Hz (Settable) Default 50 Hz	
	Maximum efficiency	>93%	>94.5%
	Overload Capacity	1min@102%~110% Load 10s@110%~130% Load 3s@130%~150% Load 0.2s@>150% Load	
	Battery voltage	25.6V	51.2V
	Compatible battery type	Lead-acid/lithium electricity	
Utility Charging	Maximum charging current(can be set)	50A	80A
PV/Battery Charging	Type of controller (PV)	PWM	MPPT
	Largest PV open circuit voltage	85V	500V
	PV operating voltage range	30-80V	120-430V
	Largest PV input current	50A	18A
	Largest PV power input	/	5500W
Biggest mixed charging current (PV+ AC)	Solar charging current range (can be set)	10~50A	2~80A
	The biggest mixed charging current (can be set)	100A	80A
Specifications	Protection functions	Over-voltage and low-voltage protection, overload protection, short-circuit protection and over-temperature protection of lithium batteries	
	Working temperature range	-10°C-50°C	
	Storage temperature range	-15~60°C	
	Humidity range	20%-95% (No condensing)	
	Noise Level	≤50db	
	Heat dissipation	Forced air cooling	
	Display mode	LCD	LCD
	BMS communication method	/	485
	Monitoring method (optional)	WiFi/4G	
	Product size (L*W*H) mm	386*116*331	433*128*380
	Packing size(L*W*H) mm	436*383*171	483*470*183
	Net weight(kg)	7kg	9.5kg
	Gross weight(kg)	9kg	11.5kg

Wall-mounted inverter

Solar controller integrated

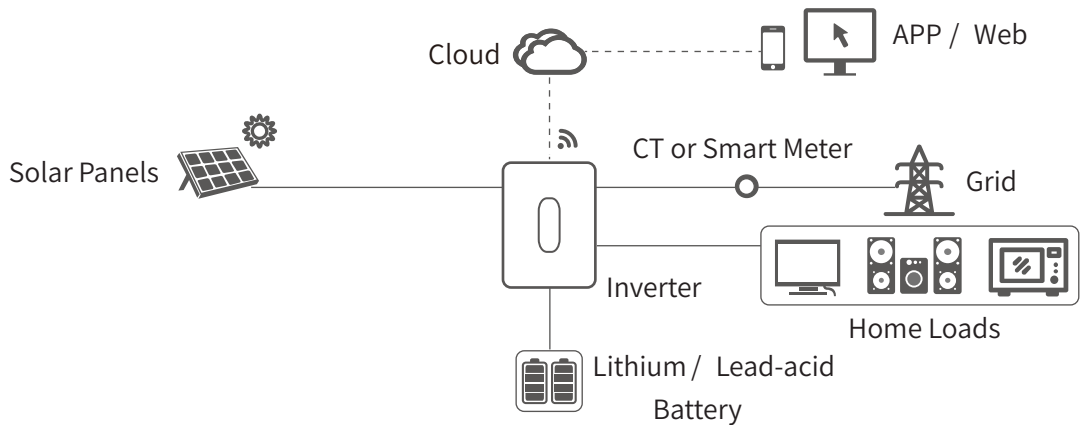
>> Models:
HBI-6K



Features:

- Wide MPPT Range
- 2 MPP trackers
- Type III SPD both on DC&AC side
- 19A MPPT input current per string
- IP66 protection level
- Integrated and concise design

Solar system connection



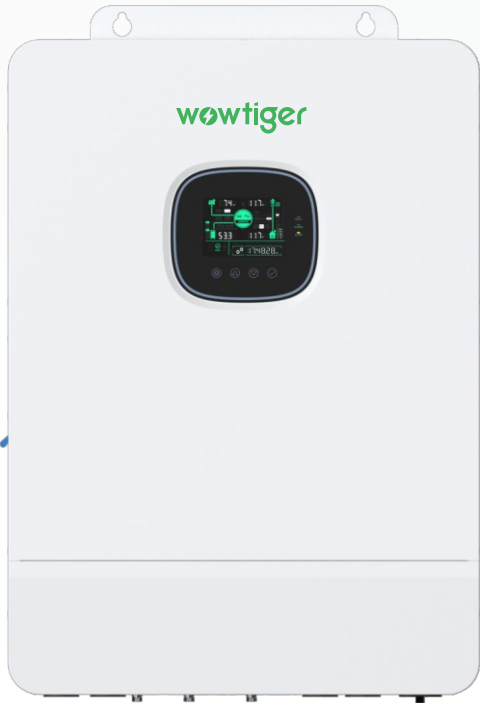
Product Specifications

Model	HBI-6K
PV Input	
Max. PV Input Power(kW)	9
Max. PV Open Circuit Voltage(V)	550
MPPT Range@Operating Voltage(VDC)	80~520
Full Power MPPT Voltage Range(VDC)	250-500V
Star-up Voltage(VDC)	90
Max. Input Current per MPPT(A)	19/19
Max. Short-circuit Current(A)	25/25
MPPT Tracker/Strings	2/1
Nominal Input Voltage(V)	360
AC Output(On-Grid)	
Nominal Output Power to Grid(kW)	6
Max. Apparent Power to Grid(kVA)	6
Max. Apparent Power from Grid(kVA)	6
Max. Apparent Current from Grid(A)	26.1
Nominal Output Current from Grid(A)	26.1
Max. Output Current to Grid(A)	26.1
Nominal Voltage/Frequency	230V(176V~280V),50/60Hz,L+N+PE
Adjustable Power Factor	0.8leading~0.8lagging
THDI	<2%
AC Output(BackUp)	
Nominal Output Power(kW)	6
Max. Apparent Power(kVA)	6
Nominal Output Current(A)	26.1
Max. Output Current(A)	26.1
Nominal Voltage/Frequency	230V(176V~238V),50/60Hz,L+N+PE
Automatic Switch Time(ms)	<20
THDu	<2%
Overload Capacity	110%,30s/120%,10s/150%,0.02s
Efficiency	
Max. Efficiency	98%
Europe Efficiency	97.50%
MPPT Efficiency	99.00%
Max. Battery Charge/Discharge Efficiency	94.60%
Battery	
Battery Voltage Range(V)	40~60
Recommended Battery Voltage(V)	48
Max. Charging Voltage(V)	60
Max. Charging/Discharging Current(A)	120/120
Battery Type	Lithium and Lead Acid Battery
Protection	
DC Switch	Yes
DC Reverse Polarity Protection	Yes
DC/AC Surge Protection	Type III / Type III
AC Over voltage Protection	Yes
AC Short-circuit Protection	Yes
Ground Fault Monitoring	Yes
Anti-islanding Protection	Yes
Residual-current Monitoring	Yes
Insulation Resistance Monitoring	Yes
Peak/Valley Time Setting	Yes
General Data	
HMI	LCD & APP
BMS	RS485; CAN
EMS/Meter	RS485
Communication	WiFi(standard)/GPRS(opt)/4G(opt)
Ingress Protection	IP66
Operating Temperature Range	-25~60°C
Relative Humidity	0~95%(Non-condensing)
Max. Operating Altitude	4000m(Derating above 3000m)
Cooling	Natural
Noise Emission	≤ 29dB
Dimensions(W*H*D)	485*527*230mm
Net Weight(kg)	24
Self-consumption(W)	<10
Standard Compliance	
Safety Regulation	IEC/EN62109-1/-2
EMC	IEC/EN61000-6-1/-2/-3
GridRegulation	Europe: EN50549, South Africa: NRS097-2-1:2017,Belgium: C10/11

Wall-mounted inverter

Solar controller integrated

>> Models:
HBSI-10K



Advantages



Supports smart shutdowns



Beautiful shape and easy



Supports DC arc pulling protection



Less than 10ms seamlessly enables
standby power

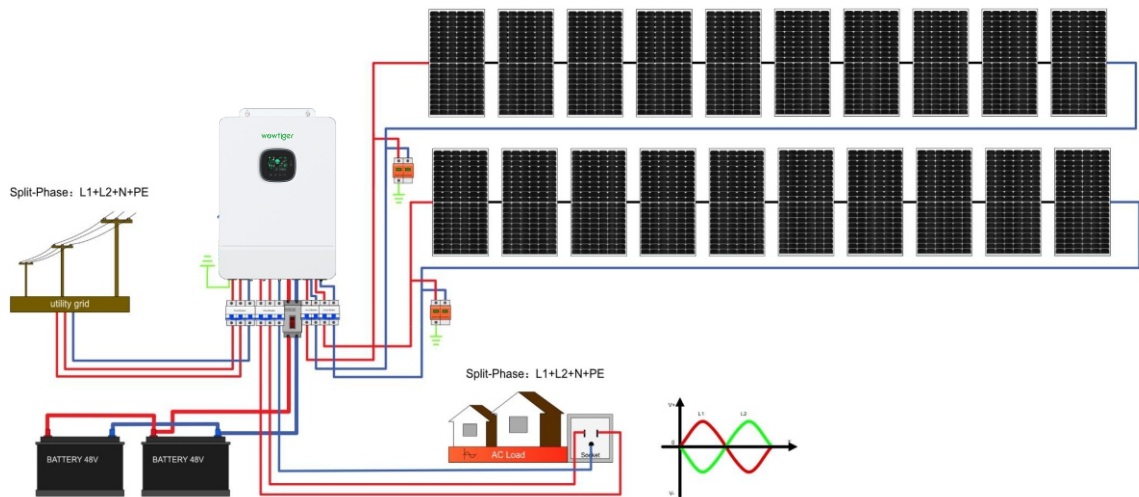


Good heat resistance
Application of environmental temperature is high
Up to + 60 ° C.



Light weight
Small volume, light weight.

Solar system connection



Product Specifications

Model	HBSI-10K	Can be set
INVERTER OUTPUT		
Rated Output Power	10,000W	
Max.Peak Power	20,000W	
Rated Output Voltage	120/240Vac(split phase/single phase,	Y
Load Capacity of Motors	6HP	
Rated AC Frequency	50/60Hz	Y
Waveform	Pure Sine Wave	
Switch Time	10ms(typical)	
Parallel capacity	/	
Overload	After triggering the overload protection the inverter will resume output after 3 minutes, 5 consecutive overloads will switch off the output until the inverter is restarted.(102%<load<110%) ±10%: error and output shutdown after 5min; (110% < load < 125%) ±10%: error and output shutdown after 10s. Load > 125% ±10%: error reported and output switched off after 5s.	
BATTERY		
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 Current	120A	Y
Max.Hybrid Charging Current	200A	Y
PV INPUT		
Num. of MPP Trackers	2	
Max.PV array power	11,000W	
Max.input current	22/22A	
Max.Voltage of Open Circuit	500Vdc	
MPPT Voltage Range	125-425Vdc	
MAINS / GENERATOR INPUT		
Input Voltage Range	90-140Vac	
Frequency Range	50/60Hz	
Bypass Overload Current	63A	
EFFICIENCY		
MPPT Tracking Efficiency	99.9%	
Max. Battery Inverter Efficiency	92%	
GENERAL		
Dimensions	620*445*130mm (2*1.5*0.4ft)	
Weight	27kg (59lb)	
Protection Degree	IP20, Indoor Only 43	
Operating Temperature Range	-10~55°C,>45°C derated (14~131°F, >113°F derated)	
Noise	<60dB	
Cooling Method	Internal Fan	
Warranty	1 Years	
COMMUNICATION		
Embedded Interfaces	RS485 / CAN / USB / Dry contact	Y
External Modules (Optional)	Wi-Fi / GPRS	Y
CERTIFICATION		
Safety	IEC62109-1, IEC62109-2,UL1741	
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B	
RoHS	Yes	



Industrial & Commercial Energy Storage System Solution

>> Models:

50kW 71.8kWh=N
(N stands for 1-8)

50kW 105kWh=N
(N stands for 1-8)



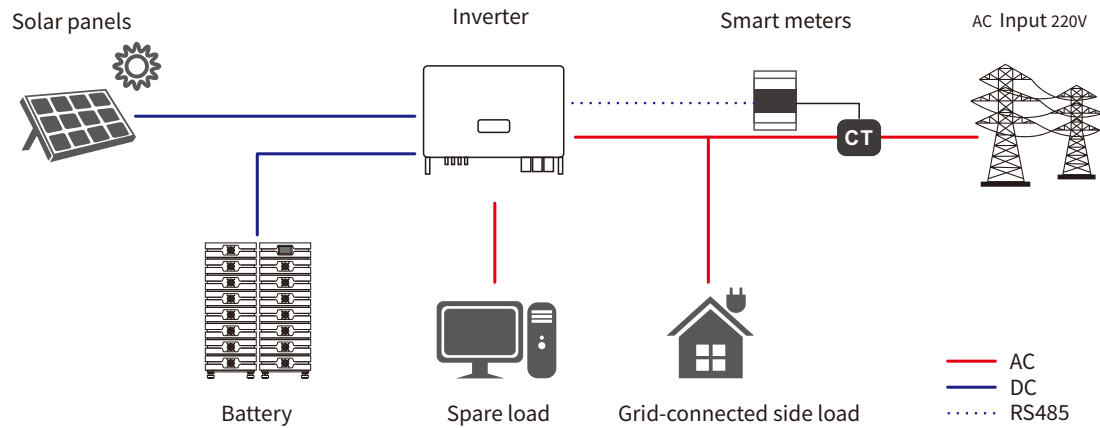
Remark

•50kW Hybrid Inverter:Maximum parallel units (Up to 4 units can be operated in parallel off-grid) .

•SSLBs Cluster: Maximum parallel 8 units .

•SSLBs---Solid-State Lithium Batteries ; ESS---Energy Storage System

Industrial&CommercialEnergyStorageSystemSolution



Model		71.8kWh Battery Cluster	105kWh Battery Cluster
Battery Module	Cell type	Solid-state Battery 3.2V/54Ah	Solid-state Battery 3.2V/54Ah
	Battery pack configuration	5.53kWh / 2P16S	5.53kWh / 4P8S
Battery Cluster	Total energy	71.5kWh	104.5kWh
	Rated voltage	665.6V	486.4V
	Battery voltage range	582.4~759.2V	425.6~554.8V
	Number of battery modules	13	19
	Number of BMS	BCU*1, BMU*13	BCU*1, BMU*19
	Charge/discharge rate	1C	1C
	Cell cycle times	≥80%@6000times	≥80%@6000times
	Communication interface	CAN/RS485	CAN/RS485
	Protection class	IP20	IP20
	Operating temperature	Charge: 0°C~55°C; Discharge: -20°C~55°C	Charge: 0°C~55°C; Discharge: -20°C~55°C
	Altitude	2000m	2000m
	Temperature control method	Integrated fan	Integrated fan
	Fire protection system	Aerosols / Perfluorohexanone	Aerosols / Perfluorohexanone
	Weight	700kg	1000kg

Model		50 kW Hybrid Photovoltaic Inverter
Photovoltaic Input	Recommended Max.input power [kW]	75
	Start-up voltage [V]	135
	Max.DC input voltage [V]	1000
	Rated DC input voltage [V]	620
	MPPT voltage range [V]	200-850
	No.of MPP trackers	4
	No.of DC inputs per MPPT	2
	Max.input current [A]	30×4
	Max.short-circuit current [A]	40×4
Battery Side	Battery type	Lithium Battery (with BMS)
	Battery voltage range [V]	135-750
	Max. charging/discharge current [A]	100/100
Grid Side	Rated output powe [kW]	50
	Max.output apparent powe [kVA]	55
	Max.input apparent power kVA]	60
	Max.charging power of battery [kW]	50
	Rated AC voltage	3L/N/PE;220/380V;230/400V;240/415V
	Rated AC frequency [Hz]	50/60
	Max.output current [A]	83
	Power factor	0.8 leading ...0.8 lagging
	Max.total harmonic distortion	<3%@Rated output powe
	DC	<0.5%In
	Rated output powe [kW]	50
Back-up Side	Max.output apparent power [kVA]	55
	Max.output current [A]	83
	UPS switching time	<20ms
	Rated output voltage	3L/N/PE;220/380V;230/400V;240/415V
	Rated output frequency [Hz]	50/60
	Voltage harmonic distortion	<3%@Linear load
	Max.intput apparent power [kVA]	60
Generator Side	Max.charging power of battery [kW]	50
	Rated AC voltage	3L/N/PE;220/380V;230/400V;240/415V
	Rated AC frequency [Hz]	50/60
Efficiency	Max.input current [A]	87
	Max.efficiency	98.80%
Protection	European efficiency	98.38%
	DC reverse polarity protection	Integrated
	Surge protection	Integrated
	Over-temperature protection	Integrated
	Residual current protection	Integrated
	Islanding protection	Integrated
	AC over-voltage protection	Integrated
	Overload protection	Integrated
	AC short-circuit protection	Integrated
General Data	Over voltage category	PV:II Main:III
	Dimensions [W×H×D mm]	800×620×300
	Weight [KG]	72
	Protection degree	IP65
	Standby self-consumption [W]	<15
	Topology	Transformerless
	Operating Temperature Range [C]	-30~60
	Relative Humidity [%]	0~100
	Operating Altitude [m]	3000(>3000m derating)
	Cooling	Smart fan
	Noise Level [dB]	<50
	Display	OLED &LED
	Communication	CAN,RS485,WiFi/LAN (Optional)

Industrial & Commercial Energy Storage System Solution

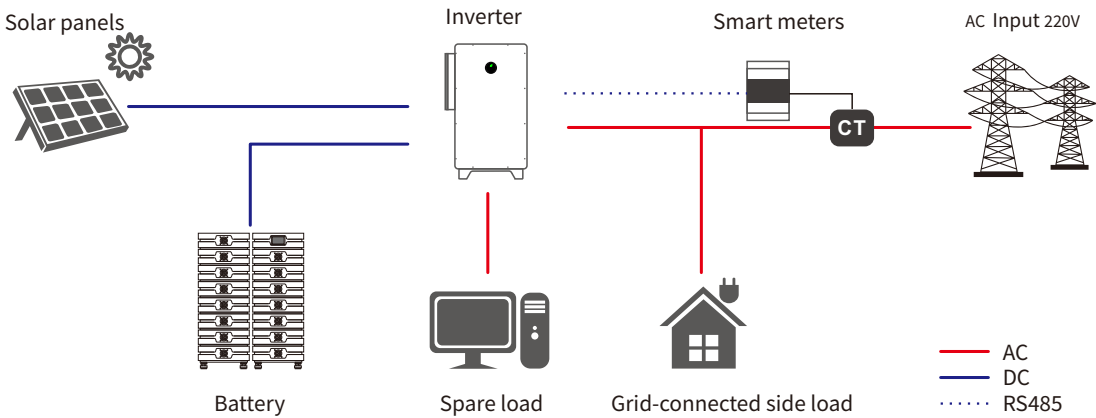
>> Models:

100kW 82.9kWh=N
(N stands for 2-8)



Remark

- Support 3 off-grid parallel machines
- UPS function > black start function, support 100% three-phase unbalanced load AC side 110% long-term overload in off-grid mode, and remote control of the generator
- Multi-channel MPPT input, adaptable to complex scenes
- Grid support function



Model		82.9kWh SSLBs Cluster
Battery Module	Cell type	Solid-state Battery 3.2V/54Ah
	Battery pack configuration	5.53kWh / 2P16S
Battery Cluster	Total energy	82.5kWh
	Rated voltage	768V
	Battery voltage range	672~876V
	Number of battery modules	15
	Number of BMS	BCU*1, BMU*15
	Charge/discharge rate	1C
	Cell cycle times	≥80%@6000times
	Communication interface	CAN/RS485
	Protection class	IP20
	Operating temperature	Charge: 0°C~55°C; Discharge: -20°C~55°C
	Altitude	2000m
	Temperature control method	Integrated fan
	Fire protection system	Aerosols / Perfluorohexanone
	Weight	800kg

Model		100 kW Hybrid Photovoltaic Inverter
Input Data (PV)	Max. recommended PV power(for module STC)	156kW
	Start voltage	195V
	Max. Input Voltage	1100V
	MPPT nominal voltage/range	550V,180V-800V
	Max. input current per MPP tracker	32A
	Max. short-circuit current per MPP tracker	40A
	No. of PV strings per MPP tracker	2
	No. of MPP trackers	10
Output Data (AC)	AC nominal power	100kW
	Max. AC apparent power	110kVA
	Nominal AC voltage/range	380/400/415V,-15%~+10%
	Nominal AC grid frequency/range	50/60Hz,45-55Hz/55-65Hz
	Max. output current	166.7A
	Adjustable power factor	-1...+1
	THDi	<3%
	AC grid connection type	3P3W+PE/3P4W+PE
Input Data (AC)	AC nominal power	100kW/200kW
	Max. AC apparent power	110kVA/200kVA
	Nominal AC voltage/range	380/400/415V,-15%~+10%
	Nominal AC grid frequency/range	50/60Hz,45-55Hz/55-65Hz
	Max. input current	166.7A/303A
Efficiency	Max. efficiency	98.20%
Backup Power (AC)	Rated AC output power	100kW
	Max. AC apparent power	120kVA
	Rated AC output voltage	220V/230V/240V(L-N),380V/400V/415V(L-L)
	Nominal AC output frequency	50/60 Hz
	Load connection	3W+N+PE
	Max. output current	181.8A
	THDV	<3% (Linear load)
	Load unbalance	100% three-phase unbalanced
	Overload capacity	≤110%: Continues; 110%~120%:<1min; >120%:200ms
	On/off grid transfer time	≤20ms
Battery Data (DC)	Continuous charging and discharging power	113.5kW
	Battery voltage range	600-1000V (for 3P3W) / 680-1000V (for 3P4W)
	Recommended battery voltage	768V
	Max charging and discharging current	167A
Protection Devices	BMS communication	RS485/CAN
	PV reverse polarity protection	Yes
	Battery reverse protection	Yes
	AC/DC surge protection	Type II
	Insulation resistance monitoring	Yes
	Ground fault monitoring	Yes
	Grid monitoring	Yes
	Residual-current monitoring unit	Yes
	AC short-circuit protection	Yes
	Strings monitoring	Yes
	Anti-islanding protection Opt	Opt
	PID protection Yes	Yes
	AFCI function	Opt
General	Dimensions (W / H / D)	820/1350/510mm
	Weight	160kg
	Operating temperature range	-30 °C~60 °C (> 50°C, derating)
	Relative humidity	0~100%
	Altitude	4000m
	Topology	Transformerless
	Cooling	Smart air cooling
	IP degree	IP66
	Display	OLED+LED/WiFi+APP
	Interfaces:	RS485/CAN/USB Yes
	Interfaces:	WIFI/LAN Opt
	Warranty (5/10 years)	Yes/Opt
	EN 62920-2017, IEC/EN 62477-1, IEC/EN 62109-1, IEC/EN 62109-2, IEC 62116, IEC 61727, G99:2020, EN 50549-1, VDE 4105, NRS 097-2-1	



Industrial & Commercial Energy
Storage System Solution

ESS 215
Outdoor energy storage cabinets



The outdoor cabinet energy storage system ESS215 can be connected to the grid and run off-grid, which can effectively regulate and control power resources in the energy storage link of the smart grid, and well balance day and night and different seasons Electricity consumption differences, adjust surplus and shortage, and ensure the safety of the power grid.

Model		ESS 215
DC side parameters	Cell type	GSP54174145F,3.2V150Ah
	Battery voltage range	627.2VDC~806.4VDC
	Current rating	150A
	Maximum current	165A
	Charge-discharge rate	≤0.5p
	Cooling method	Liquid cooling
AC side parameters	Rated power	100kW
	Rated capacity	215KWh
	Maximum output power	125kW
	Rated output current	152A
	Maximum output current	163A
	Rated grid voltage	380V
	Allowable grid voltage	-15%~+10% or 323V~418V
	Rated grid frequency	50Hz/60Hz
Basic parameters	Charge/discharge transition time	<20ms
	System efficiency	90% at rated service
	IP rating	IP54B
	Operating temperature	-20°C~+55°C
	DC input	Circuit breaker + Fuse
	AC input	breakers
	Overvoltage protection	DC Type II /ACType II
	Fire protection system	aerosol
	Allowable ambient temperature	-20°C~60°C
	Allowable ambient humidity	0~85%RH
	Working altitude	2000 meters

Solar Baby

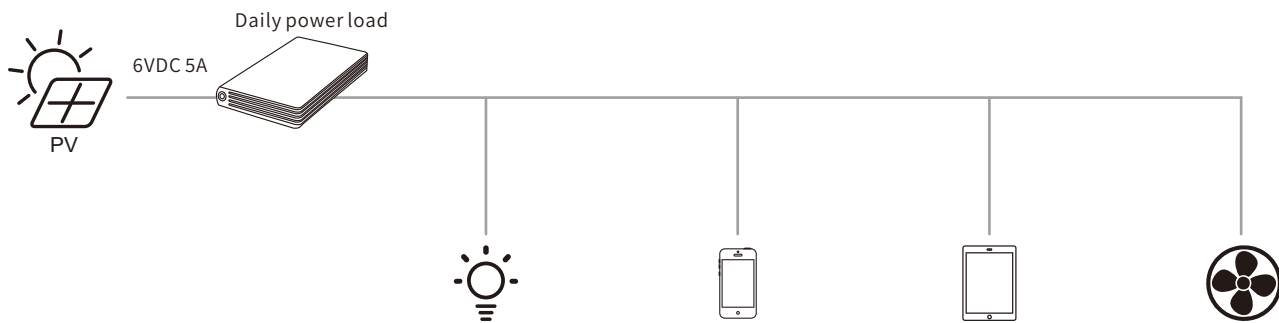
>> Models:

H38

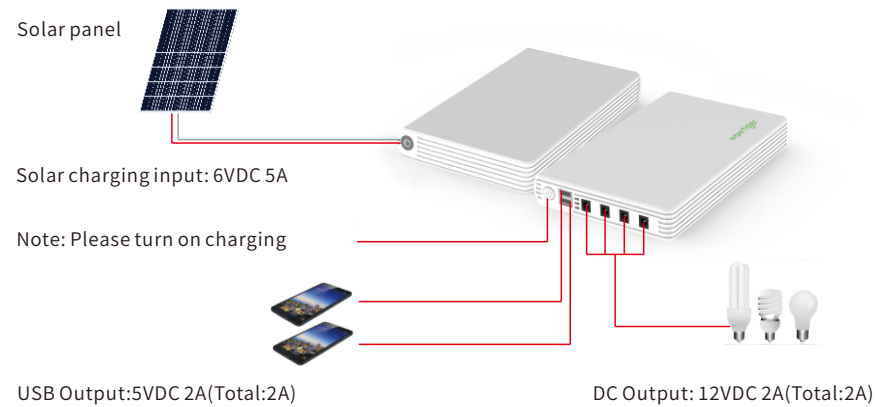
H65



⚡ Daily load



⚡ Solar system connection



Product Specifications



Model	H38	H65
Battery Type	Li-ion	
Battery Voltage	3.2V	3.2V
Nominal Capacity/Energy	38Wh	64Wh
Input		
Solar Input	6VDC 5A	
Output		
DC Output	3.2VDC 4A (DC1+2+3)	12VDC 2A (DC1+2+3+4)
USB Output	5VDC 2A (DC1+2)	
General Data		
Display Mode	Power light indication, charging state light indication	
Protection Function	Charge and discharge management, overcharge protection, over discharge protection, short circuit protection, etc	
Working Environment	Temperature: 0°C~45°C;Humidity: 0-90%	
Product Size(L*W*H)mm	160*120*29.5	220* 138*29.5
Packing size(L*W*H) mm	410*275* 48	410*390* 75
Net weight(kg)	0.55kg	1.05kg
Gross weight(kg)	1.6kg	2.7kg
Accessories	6V 8W solar panel 5VDC LED lamp	6V 15W solar panel 12VDC LED lamp

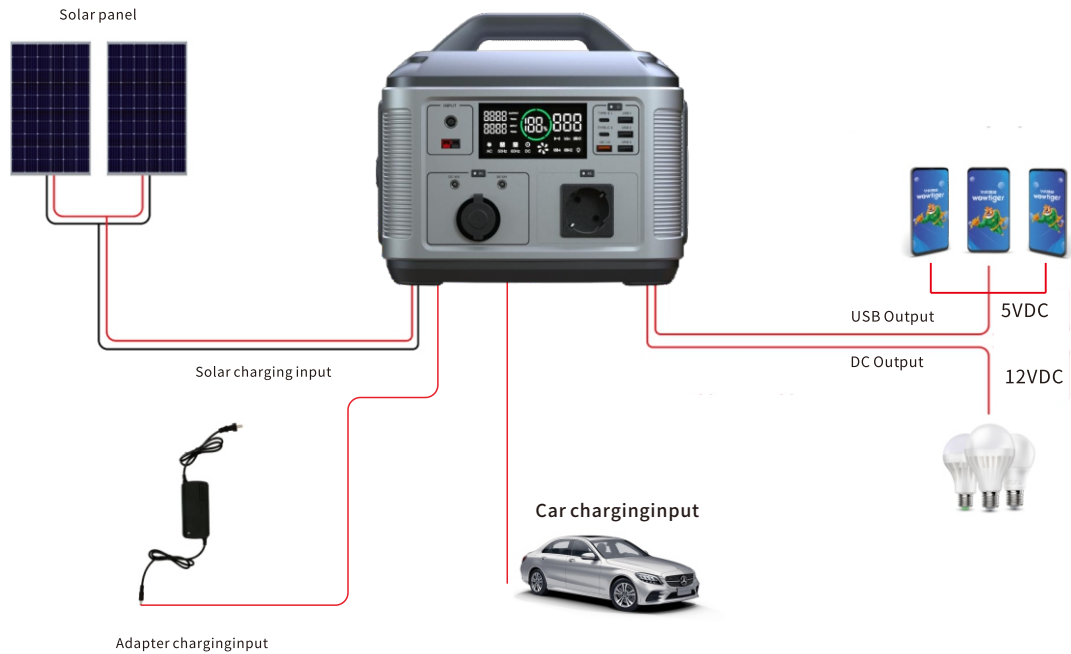
Ternary Lithium Battery

>> Models:
M700



This product is a portable energy storage power supply, which is a new energy system made of lithium batteries. Portable energy storage power supplies are widely used. Environmental protection, communications, fire protection, electricity, tourism, excavation, exploration, military, science, media, disaster relief, medical assistance, environmental protection, homeenergy storage and areas with widespread power shortages, etc. It solves the problem of outdoor electricity and facilitates people's work and life!

Solar system connection



Product Specifications



Model	M700
Capacity	25.2V 31AH
Rated power	700W
Wave form	Pure sine wave
AC output	220V/230V/240V 50hzor 100V/110V/120V 60Hz
QC3.0*4	5V/3A,9V/2A,12V/1.5A
DC*2 output	12V 10A max
Type-c	PD 18W,5V/3A,9V/3A
LED lamp power	4W
Battery Voltage	25.2V
Mains Charging	DC-12VDC 5A/ USB-5VDC 2A
Full charge time with the host	2hour
Cooling Mode	Intelligent air cooling
Standard accessories	Parallelline * 1
Protection Functions	Battery under-voltage, over-voltage protection, overload protection,short circuit protection, and over-temperature protection Overload protection 10S automatic shut-off output, 5S automatic recovery, and automatic locking for three consecutive times
Product size	L280*W220*H240mm
Color box	331*261*295mm
Carton size	345*275*318mm
G.W.	8.5kg
N.W	6.5kg



Ternary Lithium Battery

>> Models:
M2200 PRO



High power and large capacity LED display screen
with built-in high brightness LED lights;
Supportsolarcharging(12V~80V10A 650W max);Allinterfaces support both charging and discharging Support UPS function;

Application scenarios

With a standard portable size, it was suitable for the use of power supply of small house appliance and electronics.

Solar system connection



Product Specifications



Model	M2200 PRO BATTERY PACK
Capacity	44.4V 50AH(2220Wh)
Rated power	2200W
Peak power	4500W
Wave form	Pure sine wave
AC output	220V/230V/240V 50hzor 100V/110V/120V 60Hz
QC3.0*4	5V/3A,9V/2A,12V/1.5A
DC*2 output	12V 10A max
Type-c *2	PD 100W,5V/3A,9V/3A,12V/3A,15V/3A,20V/5A
LED lamp power	4W
Battery Voltage	44.4V
Mains Charging	DC-12VDC 5A/ USB-5VDC 2A
Full charge time with the host	2hour
Cooling Mode	Intelligent air cooling
Standard accessories	Parallelline * 1
Protection Functions	Battery under-voltage, over-voltage protection, overload protection,short circuit protection, and over-temperature protection Overload protection 10S automatic shut-off output, 5S automatic recovery, and automatic locking for three consecutive times
Product size	L466*W300*H260mm
Color box	521*356*395mm
Carton size	545*365*410mm
G.W.	23kg
N.W	22kg

Wowtiger Solution

1

Solar Irrigation

PV agricultural | Solar Energy
applied to agriculture

Photovoltaic water or technology photovoltaic pumping system (or photovoltaic water pump system), farmland irrigation, drainage, water-saving irrigation and its control and photovoltaic system and photovoltaic domestic desalination, Photovoltaic sewage treatment and other fields are very extensive.

Solar Irrigation



Best Center Pivot Irrigation System From China Factory On Sale

Brand : WOWTIGER
Product origin : CHINA
Supply capacity : 400 sets of pivot for each year



Center pivot irrigation system factory from China

Brand : WOWTIGER
Product origin : china
Supply capacity : 500 sets per year



Four Wheel Linear Move Corner System Irrigation Machine

Brand : WOWTIGER
Product origin : CHINA
Supply capacity : 500 set of pivot per year

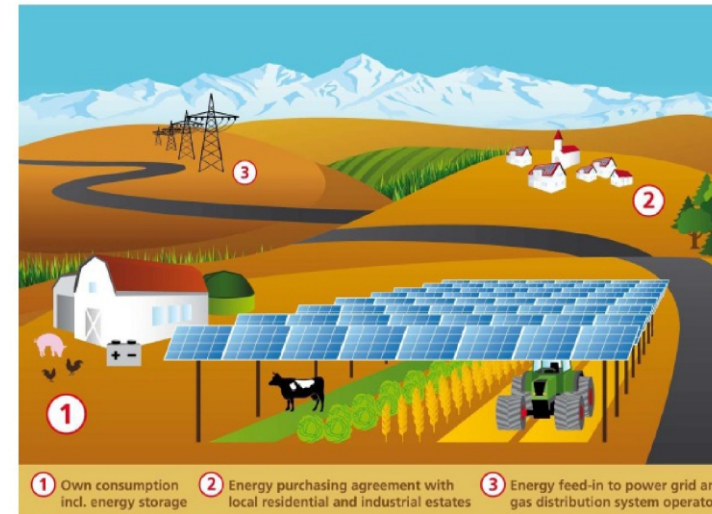
Wowtiger Solution

1

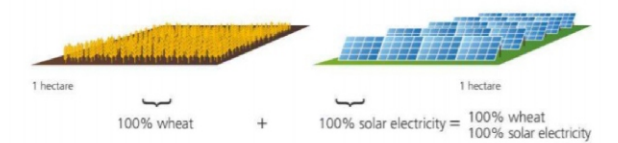
PV+Farming

PV agricultural | Solar Energy
applied to agriculture

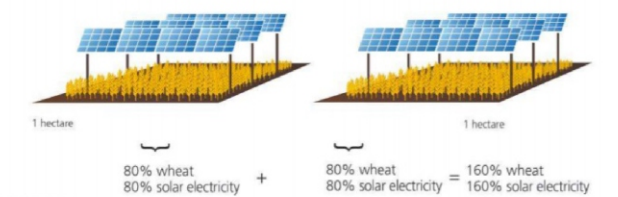
PV+Farming



Separate Land Use on 2 Hectare Cropland



Combined Land Use on 2 Hectare Cropland: Efficiency increases over 60%



© Fraunhofer ISE
The dual use of agricultural land increases the land use efficiency by 60 percent © Fraunhofer ISE

Photovoltaic farming is the combination of photovoltaic and animal husbandry, building photovoltaic power generation panels above the breeding base, and stocking or captivity of cattle and sheep below, so as to achieve multiple uses in one place and rational use of effective resources.

Solar photovoltaic applications of Farming

Brand : WOWTIGER
Product origin : CHINA
Supply capacity : 10000set of pivot per year



Solar photovoltaic applications of Melon and fruit

Brand : WOWTIGER
Product origin : CHINA
Supply capacity : 20000set of pivot per year



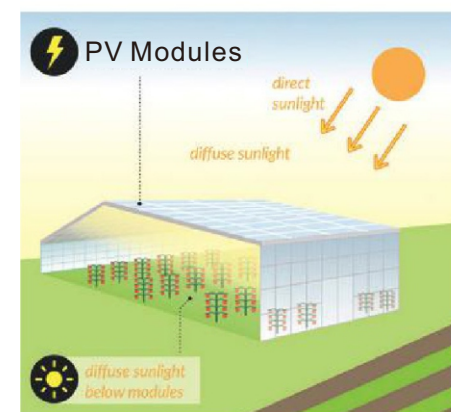
Wowtiger Solution

1

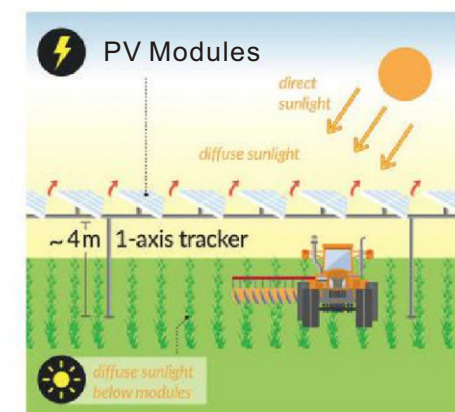
PV+Vegetables

PV agricultural | Solar Energy
applied to agriculture

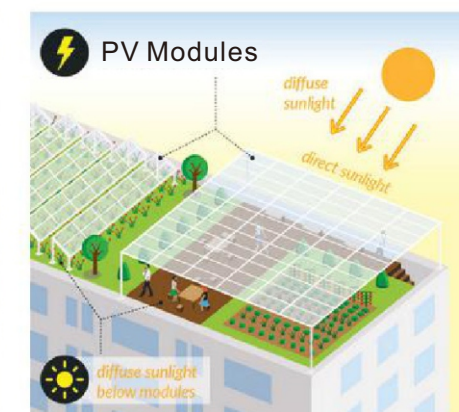
PV+Vegetables



GREENHOUSES



OPEN FIELDS



URBAN ROOFTOPS

The organic combination of rooftop photovoltaic and residential planting in agriculture promotes the transformation and upgrading of the agricultural industry. The space can be planted with crops, vegetables or shade-loving plants, and this kind of project can also do some tourist agriculture.



Solar photovoltaic applications of vegetables

Brand : WOWTIGER
Product origin : CHINA
Supply capacity : 1000set of pivot per year



Solar photovoltaic applications of Melon and fruit

Brand : WOWTIGER
Product origin : CHINA
Supply capacity : 600set of pivot per year

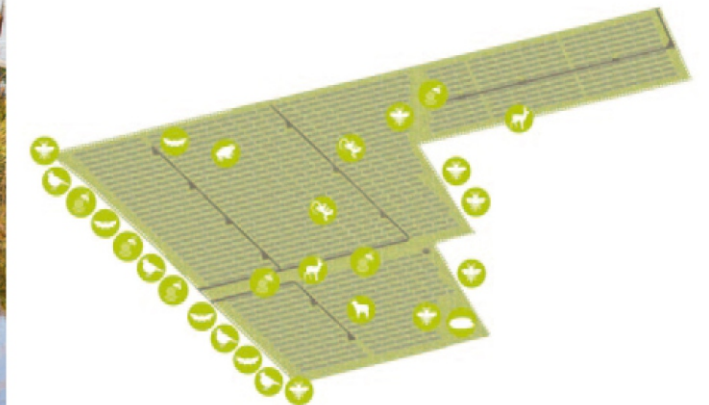
Wowtiger Solution

1

Solar ECO system

PV agricultural | Solar Energy
applied to agriculture

Solar ECO system



Use a large area of ponds, install solar panels on them to generate electricity,
The three-dimensional layout of photovoltaic modules on the surface of the water and aquaculture below is greatly increased than that of aquaculture alone.



Solar photovoltaic applications of Solar ECO system

Brand : WOWTIGER
Product origin : CHINA
payment from client
Supply capacity : 1200set of pivot per year

Solar photovoltaic applications of Solar ECO system

Brand : WOWTIGER
Product origin : CHINA
Supply capacity : 3600set of pivot per year

Wowtiger Solution

1

PV+Forestry

PV agricultural | Solar Energy applied to agriculture

PV+Forestry



Forest photovoltaic mode: forest photovoltaic is common horticulture, woods, fruit trees, at present, the State Forestry Administration on the appropriate liberalization of forestry policy also provides a certain space for development, the types mainly include weak light, yin and yang flower seedlings photovoltaic greenhouses, closed, open photovoltaic agricultural greenhouses, etc.

Solar photovoltaic applications of Forestry

Brand : WOWTIGER
Product origin : CHINA
Supply capacity : 10000set of pivot per year



Solar photovoltaic applications of Forestry

Brand : WOWTIGER
Product origin : CHINA
Supply capacity : 20000set of pivot per year



Wowtiger Solution Solar CCTV

2



Wireless connection

Wireless control

Easy to install

Rain/snow protection

Low temperature resistance

Wowtiger Solution Solar CCTV

1. Simple installation: no need to connect the controller, you can install it yourself, no need to invite construction personnel;
2. Monitoring angle: 360-degree monitoring without dead angle, with zoom can also adjust the monitoring distance;
3. No need to connect electricity: solar cell photoelectric power conversion and built-in battery pack exchange power supply;
4. No wiring: no need to gouge the wall, no need to destroy the decoration, no long-distance power transmission;
5. Ready-to-use: not limited by distance, stable network can be viewed remotely and in real time.



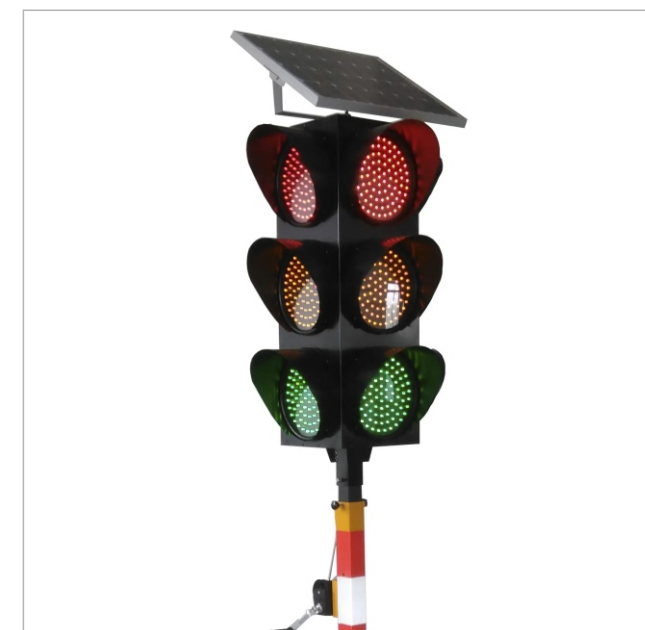
Wowtiger Solution Solar traffic

3



Traffic Signal Light

A solar traffic light is a signal indication that converts solar energy into electrical energy. It consists of solar cells, controllers, traffic signal machines, maintenance-free storage battery, signal light and other main components. Compared with ordinary signal lights, solar traffic lights are more environmentally friendly and power saving, because with power storage function, there is no need to lay signal cables during installation, which can be effective. It is becoming more and more widespread to avoid the occurrence of power outages caused by construction of applications.

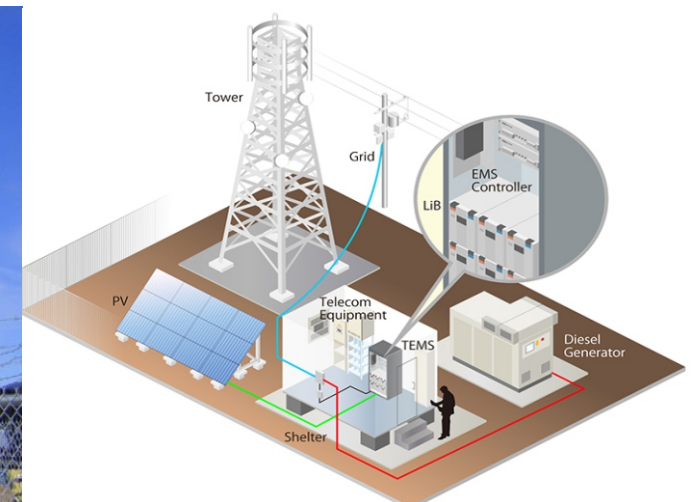


Wowtiger Solution Solar Telecommunication Solution

4

CELLULAR TOWERS
REPEATERS
LOCAL NETWORKS

Solar Telecommunication Solution



Solar traffic light is a signal indication product that converts solar energy into electrical energy. It is composed of solar cells, controllers, traffic signals, maintenance-free batteries, signal lights and other main components. Compared with ordinary signal lights, solar traffic lights are more environmentally friendly and power-saving, because they have the function of power storage, and do not need to lay signal cables during installation, which can effectively avoid the occurrence of power outages caused by construction, so they have been more and more widely used.



Wowtiger Solution Smart City Pole

5

Versatility street lampposts, using existing resources, high efficiency, energy saving, and conservation and low carbon concept protection; Make the most of road space.

Improve the utilization rate of roads, the product design structure is simple, easy to use, and have huge social and economic benefits. Wide range of applications.

Modern element design, strong ornamentation, to achieve different scene applications and lighting functions.



Smart City Pole

Mini Basestation

Remote control (on/off, dimming, data collection, real-time alarm by computer, etc.), mobile phone, Computer. Support network communication modes NB-IoT, rolla, wireless personal area network, etc.

Smart Lighting Controlling System

Remote control (on/off, dimming, real-time data acquisition, alarm, etc.) Computers, mobile phones, computers, support communication modes, such as NB-IoT rolla, wireless personal area network, etc.

We athers tation

Collect and send data to the monitoring center, such as weather, temperature, lighting PM2.5, noise, precipitation, wind speed, etc.

Information Publishing System

Display advertisements, and use text, pictures, and videos to upload public information remotely, which is efficient and convenient.

AC Charge Pile

Provide more new charging stations for energy vehicles and accelerate the popularization of new energy vehicles.

Charging station

Provide more new charging stations for energy vehicles and accelerate the popularization of new energy vehicles.

Cameras & Surveillance System

Monitor traffic, security lighting, public equipment Cameras and surveillance systems on flagpoles.

Wireless A P(WIFI)

WiFi hotspot available

Broadcasting Speaker

Play audio files and upload them to Control Center

Emergency Call System

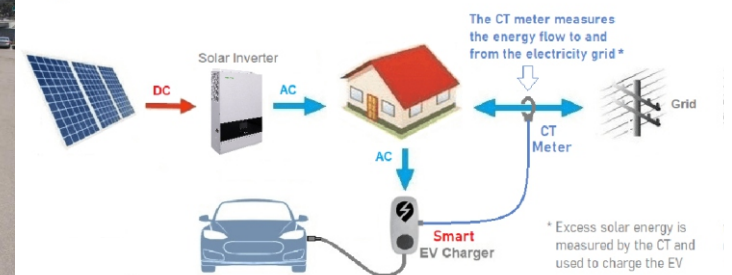
Connect directly to command centers to quickly respond to emergency public safety incidents and locations.



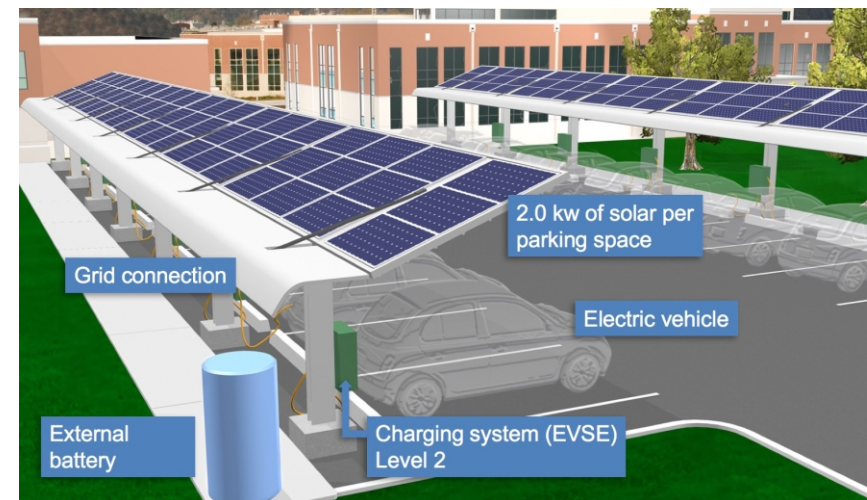
Wowtiger Solution Solar EV Charging and Parking

6

Solar EV Charging and Parking



Before we get into too many details about the different types of chargers and charging rates, it is necessary to understand the EV battery capacity and range. Battery capacity is measured in kilowatt-hours (degrees), and electric vehicles have many different sizes of batteries, from 24 kWh to more than 100 kWh. The most common electric vehicles have a battery capacity of about 65 kWh and usually provide a driving range of about 350 km, depending on the conditions and how efficiently to drive. The battery capacity per kWh will be around 5 km to 8 km of the driving range. In real-world comparisons, lighter, more efficient electric vehicles can use as little as possible 12 kWh per 100 kilometers (1 kWh = 8.2 km), while larger, high-performance EVs can use 20 kWh per 100 km or more of driving (1 kWh = 5 km).



Recharging electric vehicles using solar energy depends on the following factors: type of charger, charger usage speed can range from 2 kW to 22 kW typical rooftop solar system ranges from 5 kW to 15 kW car battery level, How much do you need? How often do you travel and how far do you drive?