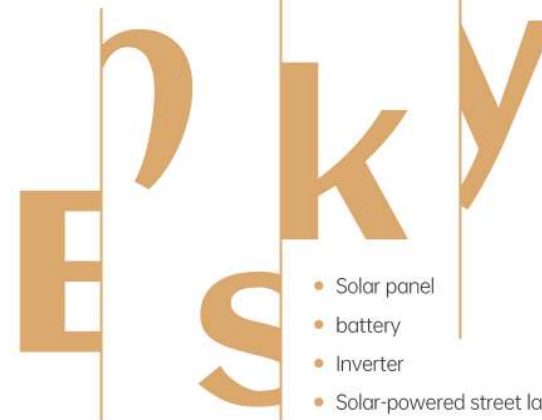




- Solar panel
- battery
- Inverter
- Solar-powered street lamp

NEW ENERGY HOLDS A PROMISING FUTURE

Energy conservation and environmental protection



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COMPANY PROFILE

ENSKY SOLAR

15+

Experience

20000m²

Factory area

ensky solar energy co.,ltd.is a professional manufacturer engaged in the research, development, sale and service of solar energy products, andhave rich OEM / DOM experience in solar panels. Our factoryequipped with advanced full-automatic machines and technology. We focus on productsquality control, strict production processes and standards to ensure that ery solar panel meets high-quality requirements. ensky solar energy co.,ltd.iscommitted to providing one-stop solar solutions including solar panels, hybrid invertersand energy storage batteries to global customers.We dedicated to delivering excellent products and services. Our product strictly follow international standards, and hold severalcertifications and qualifications,including: ISO9001, CE, TUV, IEC61215...

15 | Experience

15 | Fully Automatic Production Line

120 | Countries Covered



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SOLAR

Household power generation system
Large-scale industrial and commercial systems



Excellence and quality

ModuleType	ES-100	ES-180	ES-200	ES-300	ES-400	ES-450	ES-500	ES-575
Rate Maximum Power(Pmax/W)	100W	180W	200W	300W	400W	450W	500W	575W
Solar Cell(Type/Size)	182MM	182MM	182MM	182MM	182MM	182MM	182MM	182MM
Solar Cells Number	32Pcs(4x8)	56Pcs(7x8)	56Pcs(7x8)	130Pcs(5x26)	150Pcs(5x30)	132Pcs(6x22)	120pcs(6*20)	144pcs(6*24)
Dimensions	680x760 x25(mm)	1480x680 x30(mm)	1480x680 x30(mm)	1650x992 x35(mm)	1956x992 x40(mm)	1722x1134 x30(mm)	1909x1134 x35(mm)	2279x1134 x35(mm)
Weight	6.30Kg/Pcs	10.3kg/Pcs	10.3kg/Pcs	16.5Kg/Pcs	19.5kg/Pcs	21.5Kg/Pcs	23.9Kg/Pcs	28.5Kg/Pcs
Module Efficiency(%)	19.30%	17.90%	17.90%	15.27%	15.46%	21.00%	21.00%	21.10%
Mechanical Load	Front 5400Pa/Back 2400Pa							
Open Circuit Volatge(Voc/V)	21.80V	24.84V	24.84V	35.88V	41.55V	37.23V	41.25V	49.95V
Short Circuit Current(Isc/A)	5.82A	10.46A	11.63A	10.58A	10.58A	15.46A	14.24A	14.53.A
Voltage at Pmax(Vmp/V)	18.24V	18.24V	18.24V	30.07V	35.07V	30.95V	37.23V	41.97V
Current at Pmax(Imp/A)	5.49A	9.87A	10.97A	9.98A	9.98A	14.59A	13.43A	13.70A
Weigh Structure	Anodized aluminum EVA film + glass							
Coated Frame	Anodized aluminum alloy							
Junction Box	IP67,3bypassdiode							
Section Size	IP67,3bypassdiode							
PowerTolerance(w)	±3%							

HIGH FREQUENCY INVERTER



- BUILT-IN MPPT
- 1.6KW AND 3.2KW



Pure sinusoidal



Construit dans MPPT



Personnalisez votre batterie



unattended

Rated Power	1600VA/1600W	3200VA/3200W
Input Voltage Waveform	Sinusoidal (utility or generator)	
Nominal Input Voltage	230Vac	
Low Loss Voltage	170Vac±7V(UPS); 90Vac±7V(Appliances)	
Low Loss Return Voltage	180Vac+7V(UPS); 100Vac±7V(Appliances)	
High Loss Voltage	280Vac±7V	
High Loss Return Voltage	270Vac±7V	
Max AC Input Voltage	300Vac	
Nominal Input Frequency	50Hz/60Hz(Auto detection)	
Low Loss Frequency	40± 1HZ	
Low Loss Return Frequency	42± 1Hz	
High Loss Frequency	65+ 1Hz	
High Loss Return Frequency	63± 1Hz	
Output Short Circuit Protection	Circuit Breaker	
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)	
Transfer Time	10ms typical (UPS);20ms typical (Appliances)	

Inverter Mode Specifications		
Rated Output Power	1600W	3200W
Output Voltage Waveform	Pure Sine Wave	
Output Voltage Regulation	230Vac+5%	
Output Frequency	50Hz	
Peak Efficiency	94%	
Overload Protection	5s@>150% load; 10s@110%~150% load	
Surge Capacity	2* rated power for 5 seconds	
Nominal DC Input Voltage	12Vdc	24Vdc
Cold Start Voltage	11.5Vdc	23.0Vdc
Low DC Warning Voltage @ load < 50% @ load > 50%	11.0Vdc 10.5Vdc	22.0Vdc 21.0Vdc
Low DC Warning Return Voltage @ load < 50% @ load > 50%	11.5Vdc 11.0Vdc	22.5Vdc 22.0Vdc
Low DC Cut-off Voltage @ load < 50% @ load >50%	10.2Vdc 9.6Vdc	20.5Vdc 20.0Vdc
High DC Recovery Voltage	15.5Vdc	32Vdc
High DC Cut-off Voltage	16.5Vdc	33Vdc
No Load Power Consumption	<25W	<35W
Charge Mode Specifications		
Utility Charging Mode		
Charging Algorithm	3-Step	3-Step
AC Charging Current(Max)	60 Amp(@VP=230Vac)	60 Amp(@VyP=230Vac
Bulk Charging Voltage	Flooded Battery	14.6Vdc
	AGM /GelBattery AGM/	14.1Vdc
Floating charge voltage		13.5Vdc
MPPT		
Max. PV Array Power	1600W	3200W
Nominal py Voltage	240Vdc	240Vdc
PV Array MPPT Voltage Range	30~430Vdc	30~430Vdc
Max.PV Array Open Circuit Voltage	450Vdc	450Vdc
Max Charging Current(AC charger plus solar charger)	80Amp	80Amp
General Specifications		
Safety Certification	CE	CE
Operating Temperature Range	-10°C to 50°Cc	-10°C to 50°C
Storage temperature	-15°C ~ 60°C	-15°C ~ 60°C
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Product size(D,W,H)	405mm*303mm*107mm	405mm*303mm*107mm
Packing size(D,W,H)	470mm*380mm*170mm	470mm*380mm*170mm
N.W(kg)	5.72KG	6.18KG
G.W (kg)	6.66KG	7.14KG

HIGH FREQUENCY INVERTER



- BUILT-IN MMPT
- 6.2 KW AND 11 KW

Input Voltage Waveform	Sinusoidal (utility or generator)	
Nominal Input Voltage	230Vac	
Low Loss Voltage	170Vac±7V(UPS)90Vac+7V(Appliances)	
Low Loss Return Voltage	180Vac±7V(UPS)100Vac+7V(Appliances)	
High Loss Voltage	280Vac±7V	
High Loss Return Voltage	270Vac±7V	
Max AC Input Voltage	50A	80A
Nominal Input Frequency	50Hz/60Hz(Auto detection)	
Low Loss Frequency	40±1Hz	
Low Loss Return Frequency	42±1Hz	
High Loss Frequency	65± 1Hz	
High Loss Return Frequency	63± 1Hz	
Output Short Circuit Protection	Line mode: Circuit BreakerBattery mode: Electronic Circuits	
Efficiency (Line Mode)	>95%(Rated R load, battery full charged)	
Transfer Time	10ms typical (UPS);20ms typical (Appliances)	

Inverter Mode Specifications		
Output Voltage Waveform	Pure Sine Wave	
Output Voltage Regulation	230Vac±5%	
Output Frequency	60Hz or 50Hz	
Peak Efficiency	93%	
Overload Protection	100ms@>205% load;5s@>150% load; 10s@110%~150% load 100	
Surge Capacity	2* rated power for 5 seconds	
High DC Cut-off Voltage	66Vdc	
Low DC Cut-off Voltage	44Vdc	
Nominal DC Input Voltage	48Vdc	
Cold Start Voltage	46.0Vdc	
High DC Recovery Voltage	64Vdc	
DC Voltage Accuracy	66Vdc	
Charge Mode Specifications		
Charging Current (UPS)	80A	
Floating Charging Voltage	54Vdc	
Overcharge Protection	66vdc	
Solar Input		
Max. PV Array Open Circuit Voltage	500Vdc	
PV Array MPpT Voltage Range	90Vdc~450Vdc	
Max. Input Current	27Ax1	27Ax2
Start-up Voltage	120Vdc+/-5Vdc	
Maximum Charging Current	120A	80Ax2
General Specifications		
Safety Certification	CE	
Operating Temperature Range	-10°Cto40°C	
Storage temperature	-15°C~ 60°C	
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Product size	528mm*325mm*131mm	430mm*618mm*152mm
Packing size	583mm*405mm*217mm	525mm*700mm*225mm
N.W(kg)	12.2KG	18.3KG
G.w(kg)	13.8KG	20.7KG
Parallel Specifications (Parallel model only)		
Max parallel numbers	6	
Circulation Current under No Load Condition	Max 2A	
Power Unbalance Ratio	<5% @ 100% Load	
Paralelcommunication	CAN	
Transfer time in parallel mode	Max 50ms	
Parallel Kit	YES	

LOW-FREQUENCY INVERTER



Pure sinusoidal



Construit dans MPPT



Personnalisez votre batterie



Unattended



Model		ES-F-1012		ES-F-2024	ES-F-3024	ES-F-5048	ES-F-8048	ES-F-10048
Capacity	Rated Power	1KW		2KW	3.5KW	5KW	8KW	10KW
	Peak Power	3KW		6KW	9KW	15KW	24KW	30KW
Solar Charging	Maximum PV Charging Current	40A		60A	60A	80A	100A	120A
	Maximum PV Array Power	560W		1680W	1680W	4480W	5600W	6720W
Input	Battery Voltage	12V		24V	24V	48V	48V	48V
	DC input voltage	10.5-15VDC;24V/21-30VDC/48V/42-60VDC						
	AC Input Voltage	165-275VAC						
	AC Input Frequency	50Hz/60Hz±5Hz						
Output	Effectiveness	≥90%						
	Output Voltage	(InverterMode)220VAC+3%						
	Output Frequency	(InverterMode)50Hz/60Hz±0.5Hz						
	Output Waveform	PureSineWave						
AC Charging	Type Of Battery	SLABattery/AGMBattery/GELBattery/LithiumBattery						
	AC Charging Current	15A		0~35A				
Protection	Battery Highvoltage Warning	12V:>15VDC/24V:>30VDC/48V:>60VDC						
	Battery High voltage Protection	12V:>17VDC/24V:>34VDC/48V:>68VDC						
	Battery Low voltage Warning	12V:<10.5VDC/24V:<21VDC/48V:<42VDC						
	Low voltage Battery Shutdown	12V:<10VDC/24V:<20VDC/48V:<40VDC						
	Overload Hightemperature ShortCircuit Protection	AutomaticShutdown						
Other	Switchtime	≤5ms						
	Display	LED+LCD		LCD				
	Cooling System	ForcedAirCooling,IntelligentSpeedRegulation						
	Operating Mode	ACInputPriorityMode/BatteryPriorityMode/ECOMode/GeneratorMode/UnattendedMode						
	Communication	RS-485/BMS						
Working Environment	Temperature	0~55℃						
	Humidity	0~95%(NoCondensation)						
Exterior	ProductSize(mm)	396x294x145		507x305x171	535x322x191	586x381x191	726x429x202	
	N.W.(Kg)	11		16	22	31	44.5	49
MPPT Specifications								
Charging Mode		ConstantCurrent/FloatingCharge/MPPT						
Overall UnitEfficiency	12V/24V/48V	≥96.5%						
Photovoltaic Module Utilization	12V/24V/48V	≤99%						
Solar Input Open Circuit Voltage		≤175V						
Solar Input Operating Voltage		≤150V						
Maximum PV Charging Current		40A			80A		100A	
Maximum PV Array Power	12V	560W			/		/	
	12V	/			/		/	
	24V	/			2240W		/	
	48V	/			4480W		5600W	
Solar Panel Configuration Requirements								
RatedVoltage(v)	RatedCurrent(A)	PV ModuleLoad Voltage (Recommended Value)	Open Circuit Voltage 43V 开路电压 43V					
			Max.Input Voltage(V)	Optimal Number Of Series	Max Number Of Series	Minimum Number Of Series	Number Of Parallel Groups	
12V	40A	18V-100V	100V	2	2	2	Configured According To Power Consumption	
12V	60A	18V~60V	100V	2	3	1		
24V	60A	36V~72V	100V	2	3	1		
24V	80A	36V~72V	100V	2	3	1		
48V	60A	72V~144V	150V	3	3	2		
48V	80A	72V~144V	150V	3	3	2		
48V	100A	72V~144V	150V	3	3	2		

SOLAR STREET LAMPS

Long lifespan . high brightness . low energy consumption . Automatic sensing



High brightness



Low consumption
of energy



Aluminum lamp body



Model	ES-YTDCA-060	ES-YTDCA-080	ES-YTDCA-100	ES-YTDCA-120	ES-YTDCA-150
Battery capacity (WH)	384WH	736WH	920WH	1088WH	1280WH
Wattage (W)	60W	80W	100W	120W	150W
Color temperature (K)	6000-6500K				
Servicelife	3-5years				
Discharge time	Fullpower: >14H Inductionmodel: 48H				
Material	6063Aluminum Alloy				
Working Temperature(℃)	-20℃--+60℃				
Productpackage size(mm)	925*495*220mm 2PCS	1400*440*160mm 2PCS	1620*440*160mm 2PCS	1800*440*160mm 2PCS	1720*640*160mm 2PCS
Product size (mm)	885*424*50mm	1360*400*50mm	1580*400*50mm	1760*400*50mm	1680*600*50mm
Solar Panels	60W (Mono-crystalline)	110W (Mono-crystalline)	130W (Mono-crystalline)	150W (Mono-crystalline)	200W (Mono-crystalline)
LED lights	1W 3030SMD*120PCS	1W 3030SMD*240PCS	1W 3030SMD*280PCS	1W 3030SMD*320PCS	1W 3030SMD*400PCS
Light Angle	80°150°				
Charging and lighting methods	PWM charging microwave radar induction + segmented time control + intelligent control				
Charge time	6-8hrs				
IP Rating	IP65				
Install Height(M)	6-7M				
Package size of accessories (mm)	435*400*390mm; 4PCS/7.5KG				
Wattage	9.4KG/PCS	12.5KG/PCS	14.5KG/PCS	19.4KG/PCS	20.9KG/PCS

Picture	Model	Parameters	power
	ES-YCDD-80W	Panel :6V70W	80W (Mono-crystalline)
		Lithium battery : 384WH	
		Lightsource :20W*8	
		Lampsize :887*400*63	
	ES-YCDD-100W	Panel:6V90W	100W (Mono-crystalline)
		Lithium battery : 432WH	
		Light source :20W*12	
		Lamp size : 1160*400*63	
	ES-YCDD-120W	Panel :18V110W	120W (Mono-crystalline)
		Lithium battery : 480WH	
		Light source: 20W*16	
		Lamp size: 1435*400*63	
	ES-YCDD-150W	Panel :18V140W	150W (Mono-crystalline)
		Lithium battery : 768WH	
		Light source: 20W*20	
		Lamp size: 1714*400*63	

SOLAR-POWERED SMALL STREET LAMP



High brightness



Low consumption
of energy



Aluminum lamp
body



Picture	Model	Parameters	power
	ES-2020	Panel :6V20W	20W (Mono-crystalline)
		Lithium battery: 3.2V20AH	
		Lightsource :100pieces3030	
		Lampsize :503*233*55mm	
		Controller :5A	
	ES-3030	Panel: 6V30W	30W (Mono-crystalline)
		Lithium battery: 3.2V30AH	
		Light source: 150 pieces 3030	
		Lamp size: 598*278*55mm	
		Controller: 5A	
	ES-4040	Panel : 6V40W	40W (Mono-crystalline)
		Lithium battery : 3.2V40AH	
		Light source: 150 pieces 3030	
		Lamp size: 670*350*55mm	
		Controller : 10A	
	Arm of lamp	Φ60mm, length 500mm with a full set of screws	
	Remote control	Remote control for each sets of light	
Description 1: Three years warranty. 2: New lithium iron phosphate battery.			

LITHIUM BATTERY

Long lifespan, high temperature protection, high cycle, high quality, maintenance-free



Automatic restart while undervoltage



Plug-in connection



Automatic identify



Remote diagnose and software upgrades



Model	ES-FW-512	ES-FW-1024	ES-FW-1536
Nominal energy(kwh)	5.12KWH	10.24KWH	15.36KWH
Module Number	1PCS	1PCS	1PCS
Max charge discharge current	100A	200A	300A
Dimension (mm)	487*235.3*670MM	771*271.3*781.5MM	818*250*736MM
Weight	51kg	96kg	126kg
Nominal Voltage(kwh)	51.2V		
Chemistry	LiFePO4		
Operating voltage range	40V-58.4V		
Communication method	CAN, RS485		
Cycle life	>6000Cycles		
Installation method	Floor-standing(Withcaster)		
Color	white		
Humidity	≤95%non-condensing		
Altitude	<2000m		
Coolingmethod	Free Cooling		
Operating temperature range	Charging:0-55°C.Discharging -20-55°C		
Protection level	IP20		

LITHIUM BATTERY

Long lifespan, high temperature protection, high cycle, high quality, maintenance-free



Automatic restart while undervoltage



Plug-in connection



Automatic identify



Remote diagnose and software upgrades



Model		ES-12100T	ES-12100T(MPPT)	ES-12200T	ES-12300T
Capacity		100Ah	100Ah	200Ah	300Ah
Rated Voltage		3.2 V			
Internal Resistance		≤0.3mΩ			
Combination Standard		A. Capacity Difference≤1% B. Resistance()=0.1 ~ 0.2mΩ C. Current-maintaining Ability≥90% D. Voltage3.25 ~ 3.30V			
Combination Method		4S1P			
Rated Capacity		100Ah	100Ah	200Ah	300Ah
Nominal Voltage		12.8V			
Max. Charge Voltage		14.6V			
Discharge cut-off voltage		10.0V			
Discharge Current		100A	100A	200A	300A
Output and Inpu		P+(red) / P-(black)			
Weight		~10.3Kg(±250g)	~10.3Kg(±250g)	~19.2Kg(±250g)	~24.7Kg(±250g)
Dimension		240X167X190MM	240X167X190MM	360X302X266MM	308X186X260MM
Charge Method	Standard	20A×5.5hrs	20A×5.5hrs	40A×5.5hrs	60A×5.5hrs
	Quick	50A×2.5hrs.	50A×2.5hrs.	80A×2.5hrs.	120A×2.5hrs.
Operating Temperature	Charge	-5℃～50℃			
	Discharge	-10℃～55℃			
Solar Charging					
System voltage		/	12.8V/25.6V AUTO	/	/
Charging Mode		/	MPPT	/	/
Applicable open-circuit voltage of solar panels		/	<DC55V	/	/
Suggested voltage of solar panels		/	18V/36V	/	/
Solar Pmax		/	300W/500W	/	/
Charging Current Max		/	15A	/	/

Model		ES-24200	ES-24300
Capacity		200Ah	300Ah
Rated Voltage		3.2 V	
Internal Resistance		$\leq 0.3\text{m}\Omega$	
Combination Standard		A. Capacity Difference $\leq 1\%$ B. Resistance() $= 0.1 \sim 0.2\text{m}\Omega$ C. Current-maintaining Ability $\geq 90\%$ D.Voltage $3.25 \sim 3.30\text{V}$	
Combination Method		8S1P	
Rated Capacity		200Ah	300Ah
Nominal Voltage		25.6V	
Max. Charge Voltage		29.2V	
Discharge cut-off voltage		20.0V	
Discharge Current		200A	300A
Output and Input		P+(red) / P-(black)	
Weight		$\sim 32.5\text{Kg}(\pm 250\text{g})$	$\sim 50\text{Kg}(\pm 250\text{g})$
Dimension		412X270X185MM	360X302X266MM
Charge Method	Standard	40A $\times$ 5.5hrs	60A $\times$ 5.5hrs
	Quick	80A $\times$ 2.5hrs.	120A $\times$ 2.5hrs.
Operating Temperature	Charge	$-5^{\circ}\text{C} \sim 50^{\circ}\text{C}$	
	Discharge	$-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$	

LONG CYCLE LIFE GEL BATTERY



Deep Cycle



Low self-discharge rate



Maintenance-free



Atableand durable



Model		ES12V-250AH	ES12V-200AH	ES12-150AH	ES12-100AH	ES12-100AH
Nominal Voltage		12V				
Capacity(25°C)	20HR(10.8V)	250AH	200AH	150AH	100AH	50AH
Dimension	Length	520±2mm	522±2mm	483±2mm	405±2mm	229±2mm
	Width	268±2mm	238±2mm	170±2mm	174±2mm	138±2mm
	Height	220±2mm	218±2mm	240±2mm	207±2mm	211±2mm
	TotalHeigt	F12:225±2mm	F12:223±2	F12:240±2mm	F12:235±2mm	F5:230±2mm
Approx.Weight		66kg(145.51lbs)±2	58kg(127.87lbs)±4	41kg(90.39lbs)±2	29kg(63.93lbs)±4	14kg(30.86lbs)±3%
Terminaltype		F12:225±2mm				C2/F5
Internalresistance (Fullycharged,25°C)		Approx.3.5mΩ				Approx.8.5mΩ
Capacity affectedby temperature (20HR)	40°C	102%				
	25°C	100%				
	0°C	85%				
	-15°C	68%				
Nominal operating temperature		25°C±3°C(77°F±5°F)				
Coolingmethod	Discharg	15°C~50°C(5F~122°F)				
	Charge	10°C~50°C(14F~122F)				
	Storage	20°C~50°C(-4F~122F)				
Float charging voltage		13.50to13.80V emperaturecompensation:~18mv/°C				
Cyclic charging voltage		14.10to14.40V emperaturecompensation:~30mv/°C				
Maximum charging current		62.5A	50A	37.5A	25A	12.5A
Maximum discharge current		1800A(5sec.)	1600A(5sec.)	1200A(5sec.)	800A(5sec.)	400A(5sec.)

MPPT CONTROLLER

Long lifespan / low consumption / high efficiency / RS485 communication



Personnalisez votre batterie



Unattended



High efficiency



Model	ES-MPPT40A	ES-MPPT60A	ES-MPPT80A
Rated Current	1KW	3.5KW	5KW
Maximum Charging Current	3KW	9KW	15KW
Mppt Range Operating Voltage			
12VDC	18VDC-80VDC		
24VDC	30VDC-100VDC		
36VDC	40VDC~100VDC		
48VDC	60VDC-150VDC		
96VDC	Not Available	120VDC-200VDC	
Maximum Pv Array Power			
12VDC	570W	900W	1140W
24VDC	1130W	1700W	2260W
36VDC	1710 W	2700W	3420W
48VDC	2270W	3400W	4540W
96VDC	Not Available	7200W	9120W
Battery			
Supportable BatteryType	Gel/SLA/AGM/Water/Lithium(lifepo4)battery		
Charging Mode	ThreeStages:ConstandCurrent(mppt),equalizingCharge,FloatingCharge		
Maximum Efficiency	≥99%		
CommunicationPortal			
Communication Portal	RS485, available for wif box & external control screen RS485,		
Physical			
Dimension D*W*H(MM)	360*260*190		
G.W.(KGS)	4.5KGS		
*Product Specifications Are Subject To Change Without Further Notice			

SOLAR FLOOD LIGHT



High brightness



Low consumption
of energy



Aluminum lamp
body



Picture	Model	Parameters	power
	ES-T50W	Panel : 6V12W	12W (Mono-crystalline)
		Lithium battery : 3.2V-12AH	
		Lightsource :40pieces 5054	
		Lampsize:195*152*45mm	
		Solar panels: 350*290*15mm	
	ES-T100W	Panel : 6V18W	18W (Mono-crystalline)
		Lithium battery: 3.2V-15AH	
		Lightsource:60 pieces 5054	
		Lampsize:230*172*45mm	
		Solar panels: 400*350*15m	
	ES-T200W	Panel : 6V-25W	25W (Mono-crystalline)
		Lithium battery: 3.2V-24AH	
		Lightsource :84 pieces 5054	
		Lampsize :267*190*45mm	
		Solar panels: 530*350*15mm	
	ES-T300W	Panel : 6V-35W	35W (Mono-crystalline)
		Lithium battery: 3.2V-30AH	
		Lightsource:112 pieces 5054	
		Lampsize :305*208*45mm	
		Solar panels: 700*350*15mm	
	ES-T400W	Panel : 6V-60W	60W (Mono-crystalline)
		Lithium battery : 3.2V- 45AH	
		Lightsource :4160 pieces 5054	
		Lampsize:350*265*45mm	
		Solar panels : 670*530*25mm	