



Specification for Wind and Solar LED Street Light (100W LED)

Model	Winso100		
Light source	24V/100W		
Wind generator	24V/100W		
Solar panel	24V/260W		
Controller	24V		
Lamp Pole	10 m, hot galvanized steel, surface with Powder Coating (include rag bolts, battery house, solar bracket and cables)		
IP rating	IP65		
Working time	10 hours, 5 rainy days		
Working temperature	-40°C ~ 65°C		
Lighting feature	1120		
Certification	CE, RoHS		
Light Source			
Model	SL-100		
Rated Power	100W		
LED Power	100W		
Luminous Flux	11000lm		
LED Efficiency	110 lm/W		
Voltage (VDC)	24V		
TYPE	Inside Patented with 3 years warranty		
Protection Grade	IP66		
Fixture efficiency	>92%		
Life Time	50,000h		
Color Temperature(CCT)	5500-6500K		
Working Temperature(°C)	-40--60°C		
Lampshade	Toughened Glass		
Lamp Body Material	Aluminum Alloy		
Size	980L×396W×200H		
Weight	10.0Kg		
Brand Name	Sunlaite		
Place of Origin	Jiangsu, China (Mainland)		
Wind Turbine			
Model	WSC100		
Rated power	100W		
Maximum power	150W		
Nominal voltage	24V		
Start wind speed	1.2m/s		
Rated wind speed	10m/s		
Rated revolution	200rpm		
Weight	9kg		
Diameter	520mm		
Height	1.3m		
Blade number	2		
Blade material	CBF		
Generator	Three-phase permanent magnet synchronous generator.		
Controller system	Electromagnetic/wind round lateralization.		
Speed way	Automatically adjust the windward angle.		

Solar Panel		
Maximum Power	130W x 2	
Optimum Power Voltage(Vmp)	17.64	
Optimum Operatige Current(Imp)	3.41	
Open Circuit Voltage(Voc)	21.4	
Short Circuit Current(Isc)	3.77	
Size of Module(mm)	1100*610*5.5	
Front Glass Thickness(mm)	5	
Temperature Coefficients of Isc(%)/°C	0.065+/-0.015%/°C	
Temperature Coefficients of Voc(%)/°C	- (2.23+/-0.1) mv/ °C	
Temperature Coefficients of Pm(%)/°C	-(0.5+0.05)/°C	
Temperature Coefficients of Im(%)/°C	+0.1/ °C	
Temperature Coefficients of Vm(%)/°C	-0.38	
Temperature Range	-40°C to +85°C	
Tolerance Wattage(e.g. +/-5%)	±5%	
Surface Maximum Load Capacity	60m/s(200kg/sq.m)	
Allowable Hail Load	steel ball fall down from 1m height	
Weight Per Piece(KG)	5.4	
Bypass Diode Rating(A)	12	
Cell Efficiency for 80W(%)	>16.85%	
Frame(Material Corners,etc.)	Alumnium	
Standard Test Conditions	AM1.5 1000W/m² 25 +/-2°C	
FF (%)	70%	
Battery: 200AH (not included)		
Controller		
	High efficiency constant current driver, automatic operation from dusk to dawn or timed ON/OFF operation. Protection functions:Anti-Over-charge, Over-discharge, extend battery life and reduce maintenance.	
Pole		
	10 m hot galvanized steel surface with powder coating	



