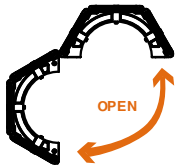
Vertical Solar Pole





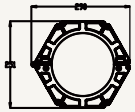


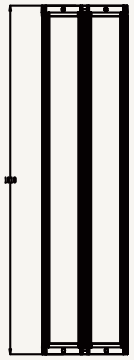
The vertical solar lighting pole is a great innovation for outdoor lighting. It is a revolutionary design with an aesthetic appearance and high stability of lighting performance.
It can be used in any type of poles and designs without dismantling them makes the application.
Poles can be sourced separately, the detachable design with adjustable spacing brackets helps the mounting easy in every pole.



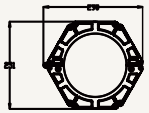
Key Advantage :

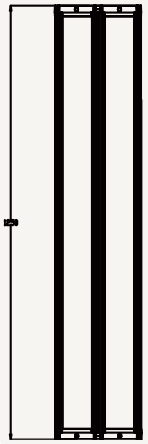
- Cost is very much lower than CIGS.
- Lifetime is long up to 20 years
- Practical efficiency is more than 22%
- Strong structure support, aluminum profile
- Resistant to dust
- Completely disassemble for transport and repair



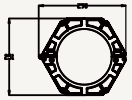


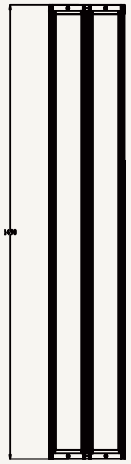
Parameter	Technical data	Parameter	Technical data
Model Number	S120	Maximum system voltage (VDC)	1000
Maximum power (Wmp)	120W	Cell Efficiency (%)	>25%
Maximum power voltage (Vmp)	18.15V	Max. Series Fuse Rating (A)	10
Maximum power current (Imp)	6.6A	Temperature Range	-40°C+85°C
Open circuit voltage (Voc)	21.55V	Tolerance Wattage	±5%
Short circuit current (Isc)	6.96A	Surface Maximum load Capacity	30m/s(200kg/sq.m)
Cells types & Size	Mono solar cell	Output tolerance (%)	±3%
Size of module (mm)	110*1010*4MM	Standard Test Conditions (STC)	STC=1000W/M2 irradiance,25°C module temperature, AM1.5
NOCT-Nominal operating cell temperature	47±2°C	Junction Box	IP65 Junction box





Parameter	Technical data	Parameter	Technical data
Model Number	S150	Maximum system voltage (VDC)	1000
Maximum power (Wmp)	150W	Cell Efficiency (%)	>25%
Maximum power voltage (Vmp)	18.15V	Max. Series Fuse Rating (A)	10
Maximum power current (Imp)	8.28A	Temperature Range	-40°C+85°C
Open circuit voltage (Voc)	21.55V	Tolerance Wattage	±5%
Short circuit current (Isc)	8.7A	Surface Maximum load Capacity	30m/s(200kg/sq.m)
Cells types & Size	Mono solar cell	Output tolerance (%)	±3%
Size of module (mm)	110*1250*4MM	Standard Test Conditions (STC)	STC=1000W/M2 irradiance,25°C module temperature, AM1.5
NOCT-Nominal operating cell temperature	47±2°C	Junction Box	IP65 Junction box

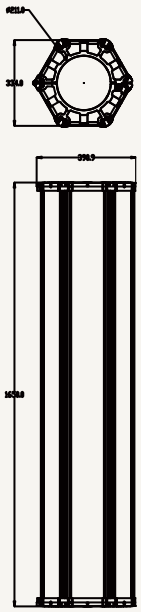




Parameter	Technical data	Parameter	Technical data
Model Number	S180	Maximum system voltage (VDC)	1000
Maximum power (Wmp)	180W	Cell Efficiency (%)	>25%
Maximum power voltage (Vmp)	18.15V	Max. Series Fuse Rating (A)	16
Maximum power current (Imp)	9.92A	Temperature Range	-40°C+85°C
Open circuit voltage (Voc)	21.55V	Tolerance Wattage	±5%
Short circuit current (Isc)	10.42A	Surface Maximum load Capacity	30m/s(200kg/sq.m)
Cells types & Size	Mono solar cell	Output tolerance (%)	±3%
Size of module (mm)	110*1490*4MM	Standard Test Conditions (STC)	STC=1000W/M2 irradiance,25°C module temperature, AM1.5
NOCT-Nominal operating cell temperature	47±2°C	Junction Box	IP65 Junction box

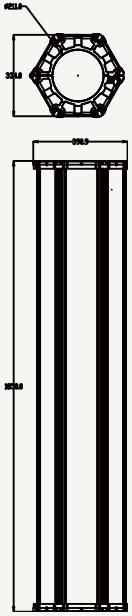
Vertical Solar Pole

250W



PV TYPE	252WP/18V/36	PV TYPE	252WP/18V/36
Power/Pmax(Wp)	252Wp	Max. parallel connection Qty	5
Open Circuit Voltage/ Voc /V	21.55/43.1	Warranty /year	5
Short Circuit current /Isc /A	14.64/7.32	Performance warranty	85%@20years
Max. Power Voltage/ Vmpp /V	18.15/43.1	Environment working temperature/℃	-40 to 85℃
Max. Power Current/ Impp /A	13.92/6.96	Junction box IP class	IP67
Cell type (Mono/Thin film)	Mono (TOPCON)	PV panel cable size	1mm²
Cell Efficiency (%)	25.3%	Wind load	wind pressure：1600Pa
Dimensions (L*OD)/mm	1650*334 (Flat-Flat)	Salt Spray Test (500hrs/1000hrs/2000hrs)	1000hrs
PV panel weight(Kg)	34.5	System voltage	1000 V DC (IEC)/1500 V DC(UL)
Installation Pole Diameter rage /cm	<=Φ210	Tolerance	-3/+3%
PV panel module sides	6		

300W



PV TYPE	300WP/18V/36V	PV TYPE	300WP/18V/36V
Power/Pmax(Wp)	300Wp	Max. parallel connection Qty	5
Open Circuit Voltage/ Voc /V	21.55/43.1	Warranty /year	5
Short Circuit current /Isc /A	17.34/8.7A	Performance warranty	85%@20years
Max. Power Voltage/ Vmpp /V	18.15/43.1	Environment working temperature/℃	-40 to 85℃
Max. Power Current/ Impp /A	16.5/8.28	Junction box IP class	IP67
Cell type (Mono/Thin film)	Mono (TOPCON)	PV panel cable size	1mm²
Cell Efficiency (%)	25.3%	Wind load	wind pressure：1600Pa
Dimensions (L*OD)/mm	~1850*334 (Flat-Flat)	Salt Spray Test (500hrs/1000hrs/2000hrs)	1000hrs
PV panel weight(Kg)	38	System voltage	1000 V DC (IEC)/1500 V DC(UL)
Installation Pole Diameter rage /cm	<=Φ210	Tolerance	-3/+3%
PV panel module sides	6		

Solar panel list

Parameter	Technical data
Solar cell	Mono cell
Glass	3.2 Cloth super white tempered glass
EVA	High light transmittance, anti-oxidation, anticorrosion resistance
TPE (black)	High temperature resistance, fatigue resistance, creep resistance, impact resistance

Solar panel list

Parameter	Technical data
Solar cell	Mono cell
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EVA	High light transmittance, anti-oxidation, anticorrosion resistance
TPE (black)	High temperature resistance, fatigue resistance, creep resistance, impact resistance

Temperature characteristics

Parameter	Technical data
Peak Power Temperature Coefficient	-0.47%/°C
Open circuit voltage temperature coefficient	-0.34%/°C
Short circuit current temperature coefficient	0.045%/°C

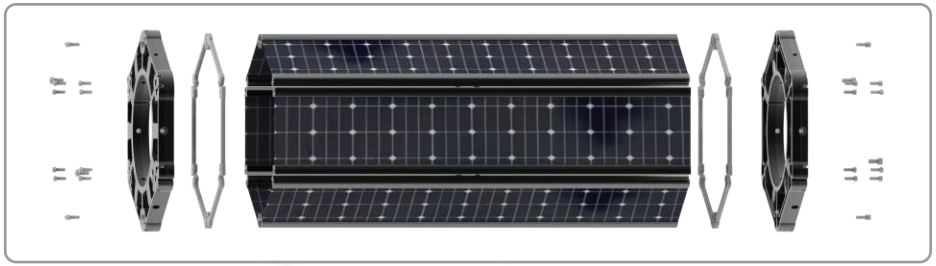
Temperature characteristics

Parameter	Technical data
Peak Power Temperature Coefficient	-0.47%/°C
Open circuit voltage temperature coefficient	-0.34%/°C
Short circuit current temperature coefficient	0.045%/°C

Vertical Solar Pole

Φ211 Details

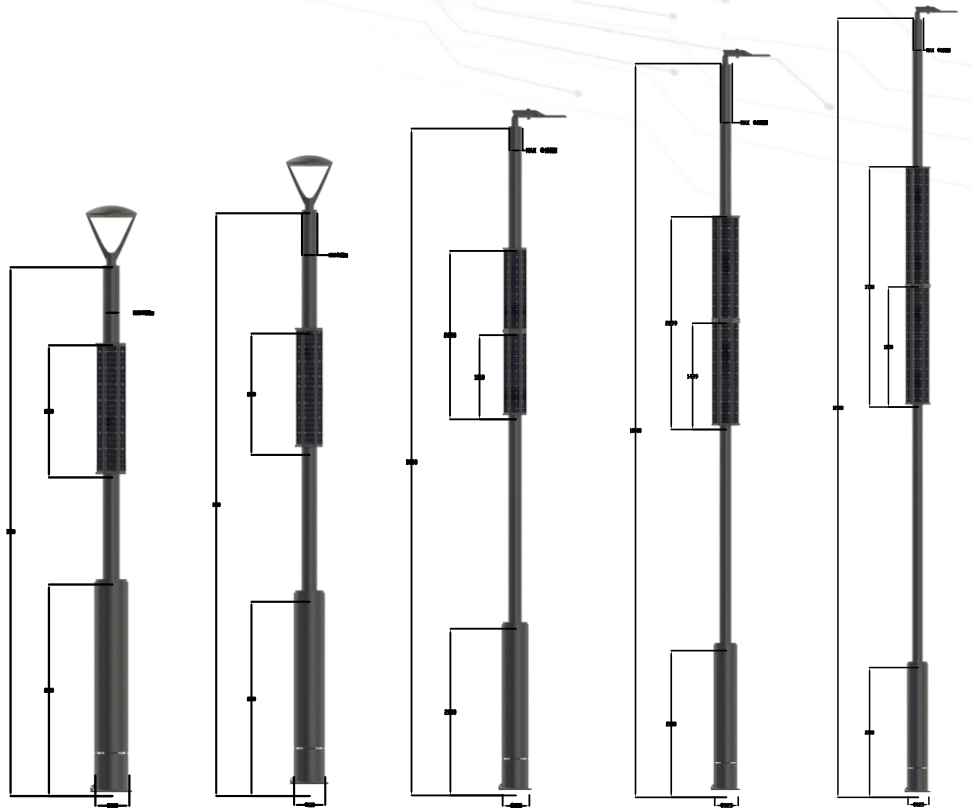






Technical information

Model	Application luminaire	LED Power (W)	Average daily light	Battery
ORVS-S150-20	Garden light	20	4hrs/day	12.8V 42AH
ORVS-S120*2-40	Street light	40	6hrs/day	25.6V 42AH
ORVS-S200*2-80	Street light	80	6hrs/day	25.6V 84AH
ORVS-S300*2-120	Street light	120	6hrs/day	25.6V 126Ah



ORVS-S150-20-5M | ORVS-S150-20-6M | ORVS-S120*2-40-8M | ORVS-S200*2-80-10M | ORVS-S300*2-120-12M