

Fullwatt[®]

PROFESSIONAL SOLAR PV MODULE MANUFACTURER

Ningbo Fullwatt New Energy Technology Co.,Ltd

ADD: No.716 Yanhu Road, Yinzhou District,Ningbo China

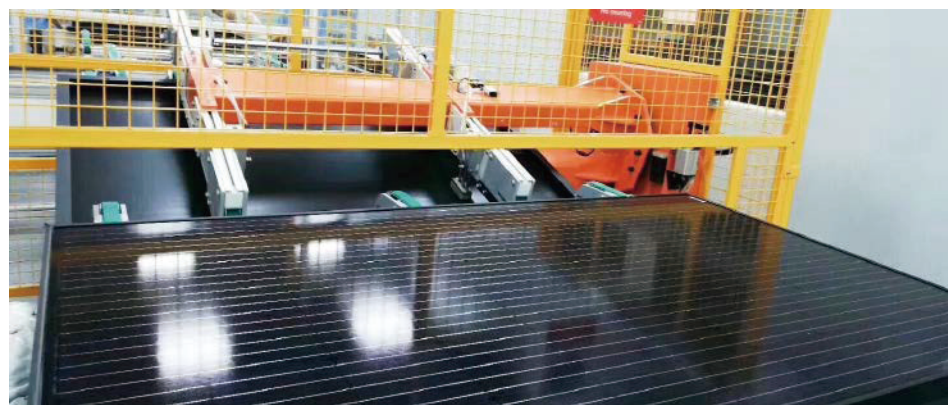
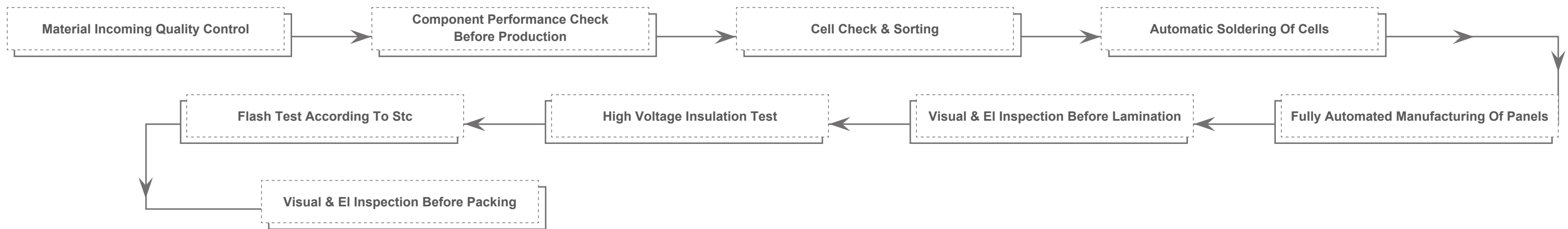
TEL: 0574-8302 8314

E-MAIL: sales01@fullwattpower.com

www.fullwattpower.com



PRODUCTION PROCESS



MATERIAL ADVANTAGE

BRAND-KNOWN RAW MATERIALS TO ENSURE
MAXIMUM INNER QUALITY

Glass

Anti-reflective coating to increase the module efficiency up to 2%
Light transmittance improvement above 3%
Self-cleaning function



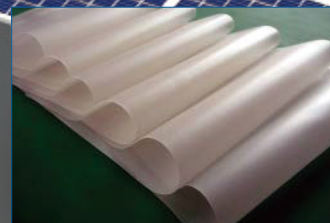
Cell

High power efficiency
Stable performance under weak light conditions
PID free



Eva Film

Light transmittance more than 92%
Snail trail prevention treatment
UV resistance against ageing



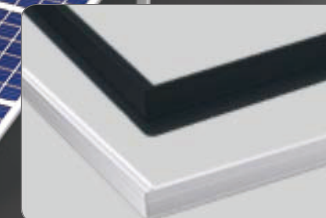
Back Sheet

Low moisture permeability against snail trail defect
Excellent electric insulation for high system voltage up to 1500V
Outstanding weatherproof performance



Frame

Strong mechanical load resistance up to 5400 Pa
Anodic oxidation layer resistant to chemical corrosion
Silver and black color optional



Junction Box

IP 67 protection grade
High quality diodes for electric safety
1500V system voltage available

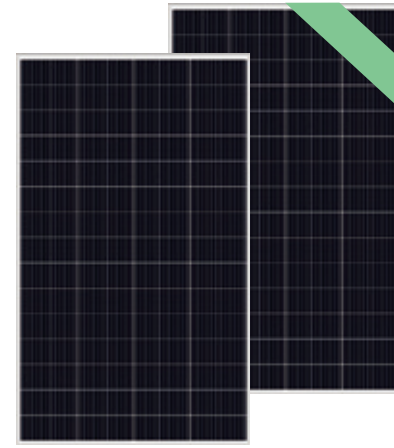


Fullwatt®

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210M SPLIT CELL 300W

- Outstanding mechanical load resistance**
2400 Pa wind load, 5400 Pa snow load
- Anti-PID(potential induced degradation)**
Passed anti-PID test under 85% damp heat, 85% relative humidity for 96 hours
- Great Durability against extreme conditions**
Passed salt mist corrosion test, ammonia corrosion test, dust&sand test, fire test, all certified by TÜV
- Double electroluminescence (EL) tests**
Carefully inspected before and after lamination to guarantee fault-free modules



ELECTRICAL PERFORMANCE

Model Type	F-PV201-300
Dimensions (L / W / H)	1650*880*35
	STC
Peak Power at STC (Pmax)	300
Maximum Power Voltage (Vmp)	33.93
Maximum Power Current (Imp)	8.85
Open Circuit Voltage (Voc)	39.87
Short Circuit Current (Isc)	9.36
Module Efficiency(%)	20.66

THERMAL CHARACTERISTICS & OPERATING CONDITIONS

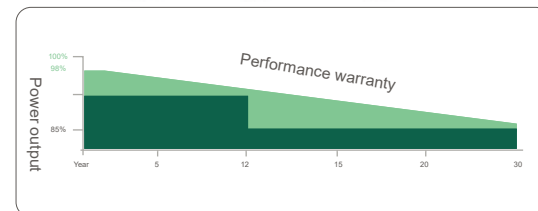
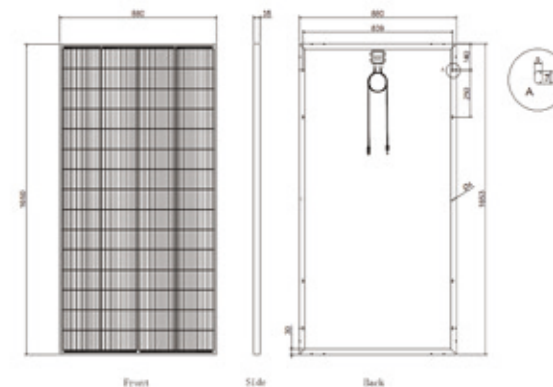
Maximum System Voltage(V)	1000V
Maximum Series Fuse Rating(A)	15
Power Tolerance	0~+3%
Pmax Temperature Coefficients(W/°C)	-0.350%
Voc Temperature Coefficients(V/°C)	-0.270%
Isc Temperature Coefficients(A/°C)	+0.048%
NOCT Nominal Operating Cell Temperature(°C)	45±2
Operating and Storage Temperature(°C)	-40°C~+85°C

CONSTRUCTION MATERIALS

Front Cover (Material / Thickness)	low-iron tempered glass / 3.2mm
Cell (Quantity/Type/Dimensions)	210*105 Mono
No. of Cells	60(4*15)
Frame (Material)	Anodized Aluminium Alloy
Junction Box (Protection Degree)	IP65/IP67
Cable (Length/Cross-Sectional Area)	4mm ² cable 90cm+mc4
Weight	15.25kg

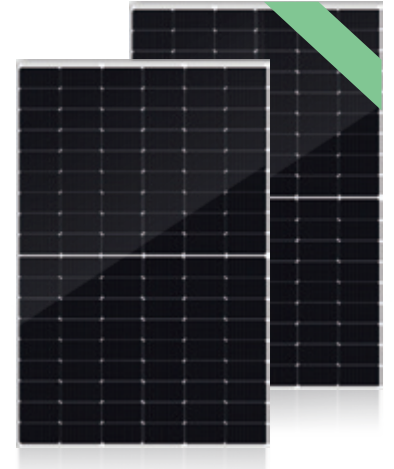
PACKAGING SPECIFICATIONS

- 20FT container 6Packages/360PCS
- 40HQ container 14Packages/952PCS



182M HALF CELL 410W

- Outstanding mechanical load resistance**
2400 Pa wind load, 5400 Pa snow load
- Anti-PID(potential induced degradation)**
Passed anti-PID test under 85% damp heat, 85% relative humidity for 96 hours
- Great Durability against extreme conditions**
Passed salt mist corrosion test, ammonia corrosion test, dust&sand test, fire test, all certified by TÜV
- Double electroluminescence (EL) tests**
Carefully inspected before and after lamination to guarantee fault-free modules



ELECTRICAL PERFORMANCE

Model Type	F-PV201-410	
Dimensions (L / W / H)	1722x1134x35	
	STC	NOCT
Peak Power at STC (Pmax)	410	304.8
Maximum Power Voltage (Vmp)	31.46	29.20
Maximum Power Current (Imp)	13.04	10.44
Open Circuit Voltage (Voc)	37.45±3%	35.05±3%
Short Circuit Current (Isc)	13.85±3%	11.16±3%
Module Efficiency(%)	20.99	

THERMAL CHARACTERISTICS & OPERATING CONDITIONS

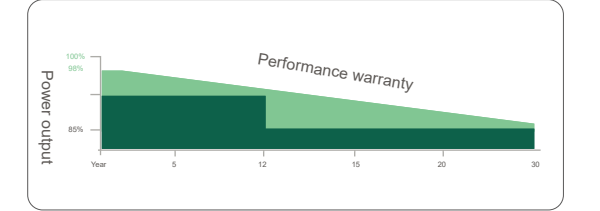
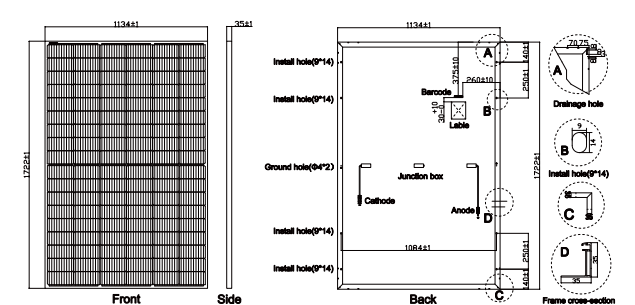
Maximum System Voltage(V)	1500/1000V
Maximum Series Fuse Rating(A)	25A
Power Tolerance	0~+3W
Pmax Temperature Coefficients(W/°C)	-0.350%
Voc Temperature Coefficients(V/°C)	-0.285%
Isc Temperature Coefficients(A/°C)	+0.045%
NOCT Nominal Operating Cell Temperature(°C)	45±2°C
Operating and Storage Temperature(°C)	-40°C~+85°C

CONSTRUCTION MATERIALS

Front Cover (Material / Thickness)	low-iron tempered glass / 3.2mm
Cell (Quantity/Type/Dimensions)	182*91 Mono
No. of Cells	108(12*9)
Frame (Material)	Anodized Aluminium Alloy
Junction Box (Protection Degree)	IP67/IP68
Cable (Length/Cross-Sectional Area)	4mm ² cable 30cm+mc4
Weight	19.00kg

PACKAGING SPECIFICATIONS

- 20FT container 6Packages/324PCS
- 40HQ container 26Packages/806PCS



STC Irradiance 1000W/m² Cell Temperature 25°C AM= 1.5
NOCT Irradiance 800W/m² Ambient Temperature 20°C AM= 1.5

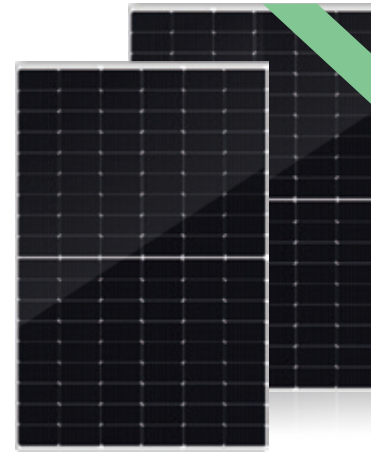
STC Irradiance 1000W/m² Cell Temperature 25°C AM= 1.5
NOCT Irradiance 800W/m² Ambient Temperature 20°C AM= 1.5



Application Scenario

182M HALF CELL 550W

- Outstanding mechanical load resistance**
2400 Pa wind load, 5400 Pa snow load
- Anti-PID (potential induced degradation)**
Passed anti-PID test under 85% damp heat, 85% relative humidity for 96 hours
- Great Durability against extreme conditions**
Passed salt mist corrosion test, ammonia corrosion test, dust&sand test, fire test, all certified by TÜV
- Double electroluminescence (EL) tests**
Carefully inspected before and after lamination to guarantee fault-free modules

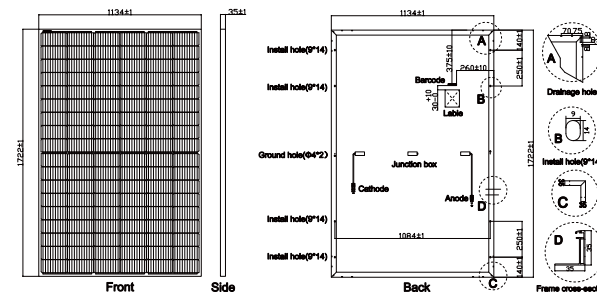


ELECTRICAL PERFORMANCE

Model Type	F-PV201-550		
Dimensions (L / W / H)	2279*1134*35		
	STC	NOCT	
Peak Power at STC (Pmax)	550	405.1	
Maximum Power Voltage (Vmp)	41.93	38.93	
Maximum Power Current (Imp)	13.00	10.43	
Open Circuit Voltage (Voc)	49.9±3%	46.73	
Short Circuit Current (Isc)	13.82±3%	11.13±3%	
Module Efficiency (%)	21.05		

THERMAL CHARACTERISTICS & OPERATING CONDITIONS

Maximum System Voltage(V)	1500V
Maximum Series Fuse Rating(A)	25A
Power Tolerance	0~+3W
Pmax Temperature Coefficients(W/°C)	-0.400%
Voc Temperature Coefficients(V/°C)	-0.290%
Isc Temperature Coefficients(A/°C)	+0.040%
NOCT Nominal Operating Cell Temperature(°C)	45±2°C
Operating and Storage Temperature(°C)	-40°C~+85°C

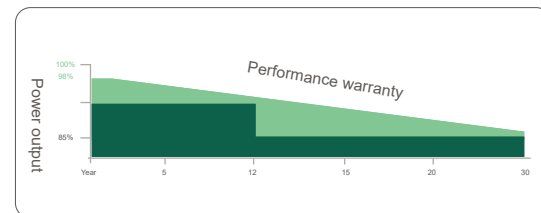


CONSTRUCTION MATERIALS

Front Cover (Material / Thickness)	low-iron tempered glass / 3.2mm
Cell (Quantity/Type/Dimensions)	182*91 Mono
No. of Cells	144(6*12)*2
Frame (Material)	Anodized Aluminium Alloy
Junction Box (Protection Degree)	IP67/IP68
Cable (Length/Cross-Sectional Area)	4mm² cable 30cm+mc4
Weight	27.00kg

PACKAGING SPECIFICATIONS

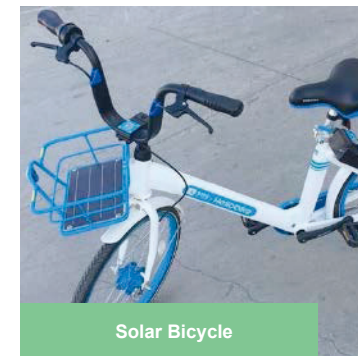
- 20FT container 10Packages/275PCS
- 40HQ container 22Packages/620PCS



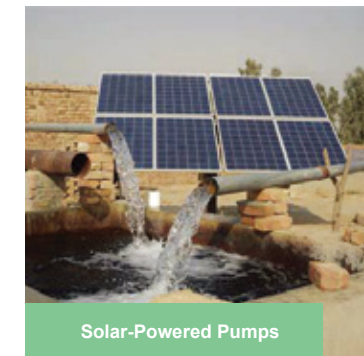
Rooftop Installation



Solar Street Lights



Solar Bicycle



Solar-Powered Pumps



Color Steel Tile



Glazed Tile



Flat Cement Floor



Ground Installation