

ZY-G12PH/100P

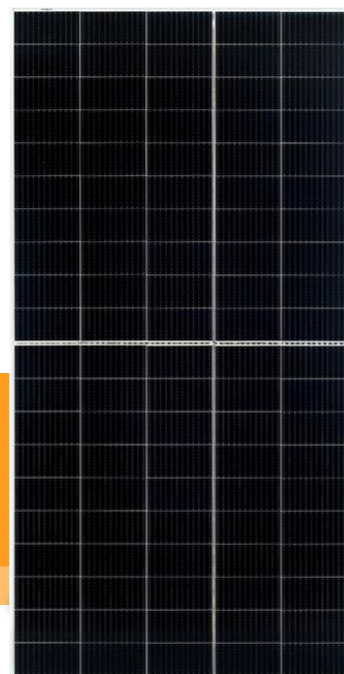
0~+5W
485~505W

单晶单玻半片组件
Mono-crystalline Half-cut Module

21.2%

转换效率最高可达

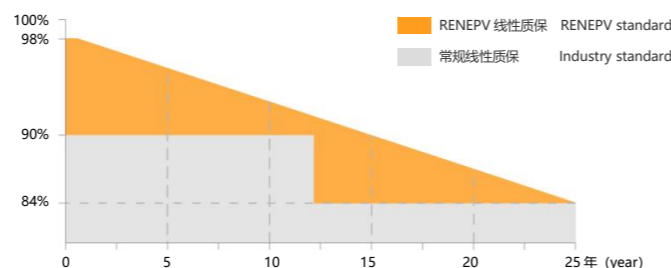
High Module Conversion Efficiency



产品特性 Key Features

- 优异的弱光性能**
Outstanding performance in weak-light conditions
- 突出的低温度系数**
Lower operating temperature
- 半片电池和多主栅设计**
Half-cell and MBB design
- 优异的机械载荷能力**
Extended wind and snow load tests
- 环境适应性强**
Withstanding harsh environment
- 使用场景定制化**
Use scenario customization

质量认证 Quality Certification



12 years 12年材料和工艺质保
Materials and workmanship warranty

25 years 25年线性性能质保
Linear performance warranty

首年功率衰减不超过 2% First year power degradation < 2%
后续每年功率衰减不超过 0.55% Annual degradation < 0.55%

产品质保 Product Guarantee

ISO 9001:2015 质量管理体系 Quality management systems
ISO 14001:2015 环境管理体系 Environment management systems
ISO 45001:2018 职业健康安全管理体系 Occupational health and safety management systems
IEC 61215/IEC 61730/IEC 61701/IEC 62716
TUV/CE/CQC/MCS/BIS/SASO/SGS/INMETRO



电性能参数 Electrical Characteristics

组件型号 Module Type	ZY485G12PH-100		ZY490G12PH-100		ZY495G12PH-100		ZY500G12PH-100		ZY505G12PH-100	
组件工作条件 Working Conditions	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
最佳功率 Maximum Power at STC/NMOT(Pmax)	W	485	362.8	490	366.5	495	370.3	500	374.0	505
最佳工作电压 Optimum Operating Voltage(Vmp)	V	30.24	28.12	30.38	28.25	30.52	28.38	30.66	28.51	30.80
最佳工作电流 Optimum Operating Current (Imp)	A	16.04	12.90	16.13	12.97	16.22	13.05	16.31	13.12	17.21
开路电压 Open Circuit Voltage(Voc)±3%	V	35.93	33.41	36.09	33.56	36.25	33.71	36.41	33.86	36.57
短路电流 Short Circuit Current(Isc)±3%	A	16.98	13.74	17.06	13.82	17.13	13.90	17.21	13.98	18.14
组件发电效率 Module Efficiency	%	20.4		20.6		20.8		21.0		21.2
组件最大系统电压 Maximum System Voltage	V	1500 (DC)								
最大额定值熔丝电流 Maximum Series Fuse Rating	A	20								
组件工作温度范围 Operating Module Temperature	°C	-40~+85								

STC: 光照 1000W/m² 组件温度 25°C 大气质量 1.5 Irradiance 1000W/m², cell temperature 25°C, atmospheric quality AM1.5
NMOT: 光照 800W/m² 环境温度 20°C 风速 1m/s Irradiance 800W/m², ambient temperature 20°C, AM1.5, wind speed 1m/s

机械性能 Mechanical Characteristics

电池片类型 Solar Cell (No.of cells)	P 型单晶(P-Mono)210x210 50 PCS
组件尺寸 Dimensions	2172x1096x35 mm
组件重量 Weight	26.3 kg(±3%)
钢化玻璃 Front Glass	3.2mm 镀膜钢化玻璃 Low-iron tempered glass
边框 Frame	阳极氧化铝合金 Anodized aluminum alloy
接线盒 Junction Box	IP68 防护(3个二极管)IP68 rated(3 bypass-diodes)
光伏线缆 Output Cables	4mm ² /线长 2x300mm 或定制化(Customized length)
机械载荷 Mechanical Load	5400Pa/2400Pa
防火等级 Safety Rate	Class II (IEC)

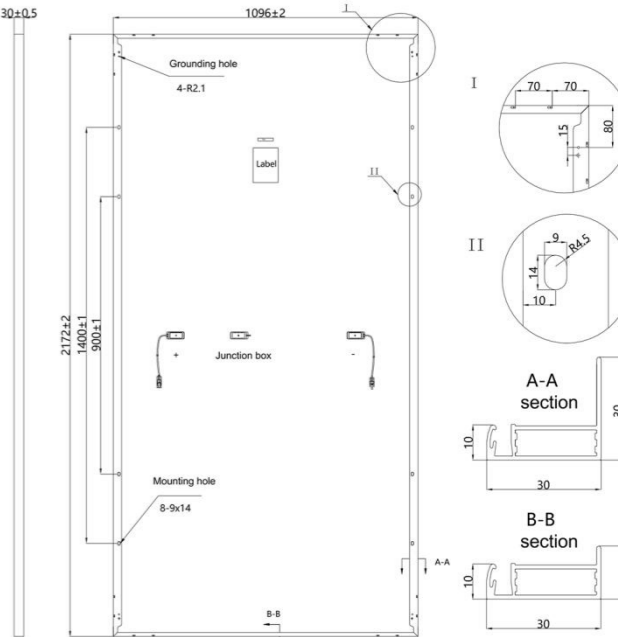
温度特性 Temperature Characteristics

最佳功率(Pmax)温度系数 Temperature Coefficient of Pmax	%/°C	-0.35
开路电压(Voc)温度系数 Temperature Coefficient of Voc	%/°C	-0.29
短路电流(Isc)温度系数 Temperature Coefficient of Isc	%/°C	+0.046
额定电池工作温度(NMOT)Nominal Module Operating Temperature	°C	44±2

包装标准 Packing Configuration

货柜 (出口货柜) Container	20'GP	40'HQ
托数量 Pieces per pallet(PCS)	/	31&25
柜托数 Pallets per container (Pallet)	/	20&2
柜数量 Pieces per container(PCS)	/	670
平板车(国内陆运 Domestic Transport)	每托尺寸 MEAS: 2200x1120x1220 mm	
9.6米装车数量	31PCS/托	16托/车 496PCS/车
13.5米装车数量	31PCS/托	24托/车 744PCS/车
17.5米装车数量	31PCS/托	30托/车 930PCS/车

装配图纸 Assembly Drawing (mm)



曲线图 I-V Curves(500W)

