

# 单晶125×125(WM-A)太阳能组件产品系列

## SOLAR MODULES Mono 125×125 (WM-A) series product

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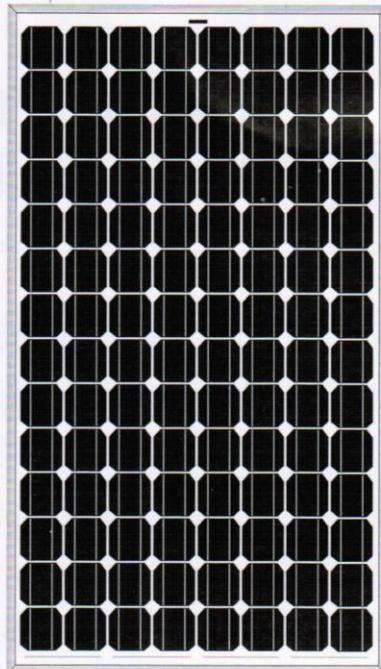
# 单晶156×156(WM-C)太阳能组件产品系列

## SOLAR MODULES Mono 156×156 (WM-C) series product

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**单晶125×125  
MONO  
CL290WM-37.4/Aa-Ac**

290WM-37.4  
270WM-37.4  
260WM-37.4



**Specifications 参数**

Cell 电池片	Monocrystalline silicon solar cells 125mm*125mm
No.of cells and connections 电池片数量和排列	112 (8*14)
Dimension of module(mm) 组件尺寸(毫米)	1840*1062*45
Weight 重量	23.5kg

**Characteristics 规格**

Model 型号	290WM	270WM	260WM
Open circuit voltage(Voc) 开路电压	66.8V	66.5V	66.1V
Optimum operating voltage(Vmp) 工作电压	54.7V	54.6V	54.4V
Short circuit current (Isc) 断路电流	5.77A	5.47A	5.32A
Optimum operating current(Imp) 工作电流	5.31A	4.94A	4.78A
Efficiency Range(%) 效率	16.73%	15.58%	15.00%
Maximum power at STC(Pm) 功率	290W	270W	260W

STC:Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM=1.5 标准测试条件：光照度1000W/m<sup>2</sup>，组件温度25°C，大气质量=1.5

**Temperature and Coefficients 温度系数**

NOCT 额定工作温度	48 °C ± 2 °C
Current temperature coefficient 电流温度系数	%/k 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k -(155 ± 10)
Power temperature coefficient 功率温度系数	%/k -(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

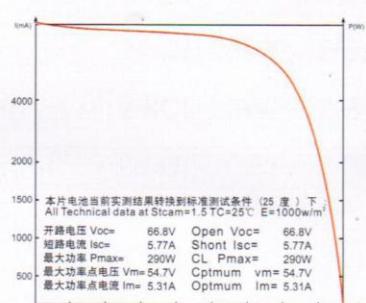
**Output 输出**

Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

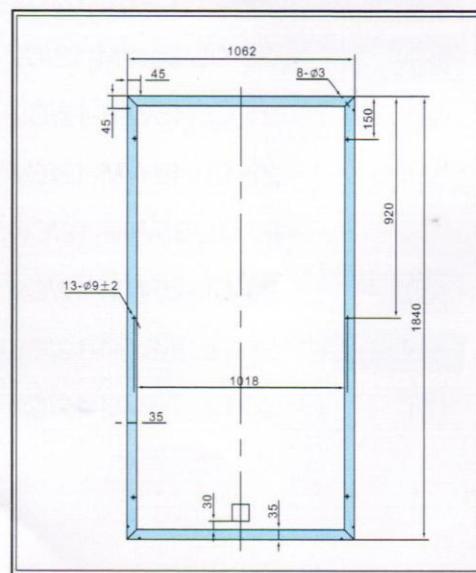
**Limits 工作范围**

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

**Module IV Graph 组件功率曲线图**

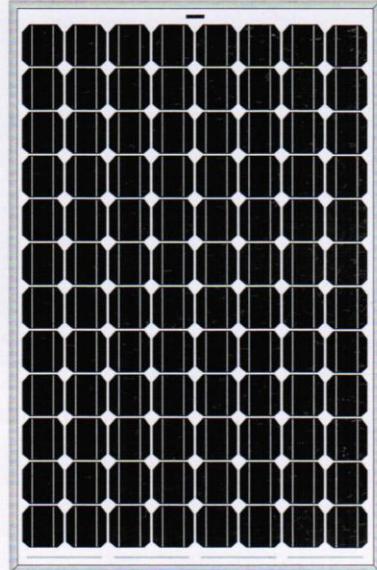


**PV MODULE STRUCTURE 组件结构图**



**单晶125×125  
MONO  
CL250WM-32/Ad-Ah**

250WM-32  
230WM-32  
220WM-32  
210WM-32  
200WM-32



**Specifications 参数**

Cell 电池片	Monocrystalline silicon solar cells 125mm*125mm
No.of cells and connections 电池片数量和排列	96 (12*8)
Dimension of module(mm) 组件尺寸(毫米)	1580*1062*45
Weight 重量	21kg

**Characteristics 规格**

Model 型号	250WM	230WM	220WM	210WM	200WM
Open circuit voltage(Voc) 开路电压	58.6V	58.3V	58.1V	57.8V	57.5V
Optimum operating voltage(Vmp) 工作电压	47.8V	47.4V	47.2V	46.9V	46.7V
Short circuit current (Isc) 断路电流	5.62A	5.32A	5.16A	5.04A	4.96A
Optimum operating current(Imp) 工作电流	5.23A	4.85A	4.66A	4.48A	4.28A
Efficiency Range(%) 效率	16.83%	15.48%	14.81%	14.14%	13.46%
Maximum power at STC(Pm) 功率	250W	230W	220W	210W	200W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25°C,AM=1.5 标准测试条件：光照度1000W/m<sup>2</sup>，组件温度25℃，大气质量=1.5

**Temperature and Coefficients 温度系数**

NOCT 额定工作温度	48 °C ± 2 °C
Current temperature coefficient 电流温度系数	%/k 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k -(155 ± 10)
Power temperature coefficient 功率温度系数	%/k -(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

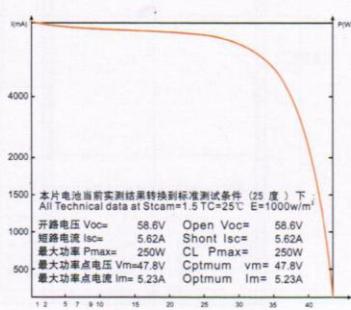
**Output 输出**

Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

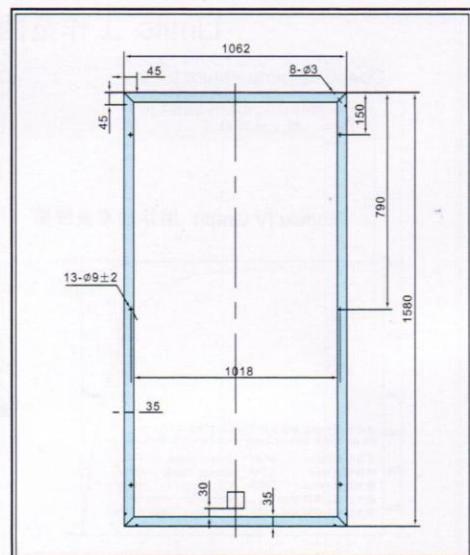
**Limits 工作范围**

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

**Module IV Graph 组件功率曲线图**



**PV MODULE STRUCTURE 组件结构图**



# 单晶125×125 MONO CL190WM-24/Ai-Am

190WM-24  
185WM-24  
170WM-24  
160WM-24  
150WM-24



## Specifications 参数

Cell 电池片	Monocrystalline silicon solar cells 125mm*125mm
No.of cells and connections 电池片数量和排列	72 (6*12)
Dimension of module(mm) 组件尺寸(毫米)	1580*808*45
Weight 重量	16kg

## Characteristics 规格

Model 型号	190WM	185WM	170WM	160WM	150WM
Open circuit voltage(Voc) 开路电压	44.6V	44.2V	43.8V	43.4V	43.1V
Optimum operating voltage(Vmp) 工作电压	36V	35.9V	35.6V	35V	34.6V
Short circuit current (Isc) 断路电流	5.75A	5.54A	5.31A	5.16A	4.97A
Optimum operating current(Imp) 工作电流	5.29A	5.15A	4.78A	4.57A	4.34A
Efficiency Range(%) 效率	17.04%	16.60%	15.26%	14.36%	13.46%
Maximum power at STC(Pm) 功率	190W	185W	170W	160W	150W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25°C,AM=1.5 标准测试条件: 光照度1000W/m<sup>2</sup>, 组件温度25℃, 大气质量=1.5

## Temperature and Coefficients 温度系数

NOCT 额定工作温度	48 °C ± 2 °C
Current temperature coefficient 电流温度系数	%/k 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k -(155 ± 10)
Power temperature coefficient 功率温度系数	%/k -(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

## CL-24

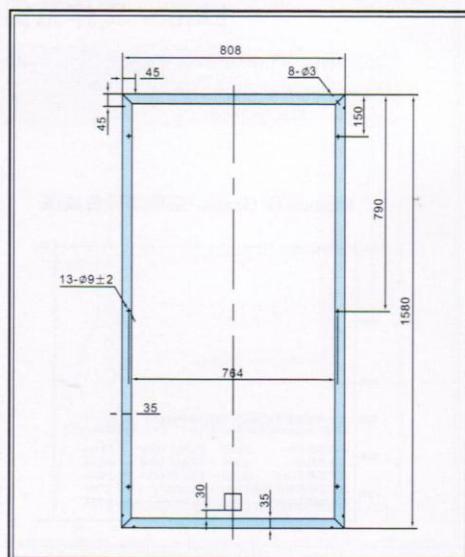
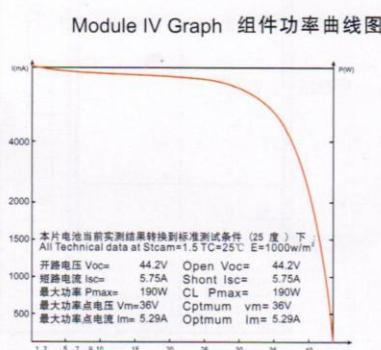
Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

## Output 输出

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

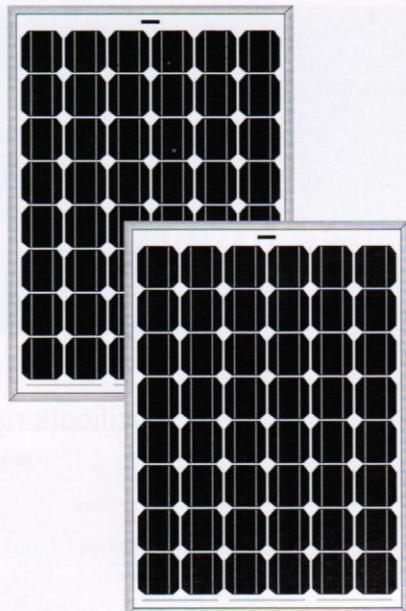
## Limits 工作范围

### PV MODULE STRUCTURE 组件结构图



# 单晶125×125 MONO CL130WM-16/An-Ap

130WM-16  
120WM-16  
100WM-16



## Specifications 参数

Cell 电池片	Monocrystalline silicon solar cells 125mm*125mm
No.of cells and connections 电池片数量和排列	48 (8*6)
Dimension of module(mm) 组件尺寸(毫米)	1075*808*35
Weight 重量	12kg

## Characteristics 规格

Model 型号	130WM	120WM	100WM
Open circuit voltage(Voc) 开路电压	30.4V	29.8V	29V
Optimum operating voltage(Vmp) 工作电压	23.6V	23.4V	23.1V
Short circuit current (Isc) 断路电流	5.93A	5.59A	4.8A
Optimum operating current(Imp) 工作电流	5.51A	5.12A	4.33A
Efficiency Range(%) 效率	17.50%	16.16%	13.46%
Maximum power at STC(Pm) 功率	130W	120W	100W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25°C,AM=1.5 标准测试条件: 光照度1000W/m<sup>2</sup>, 组件温度25°C, 大气质量=1.5

## Temperature and Coefficients 温度系数

NOCT 额定工作温度	48 °C ± 2 °C
Current temperature coefficient 电流温度系数	%/k 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k -(155 ± 10)
Power temperature coefficient 功率温度系数	%/k -(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

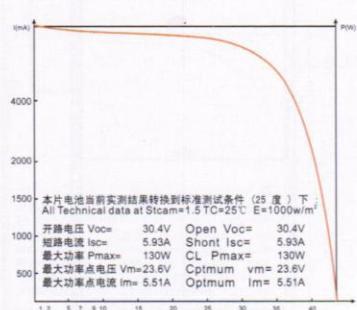
## Output 输出

Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

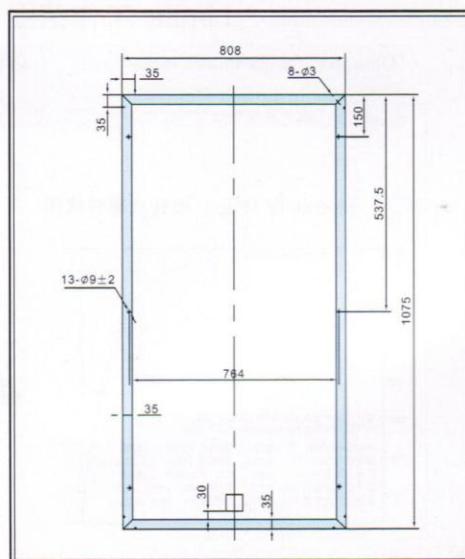
## Limits 工作范围

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

Module IV Graph 组件功率曲线图



PV MODULE STRUCTURE 组件结构图

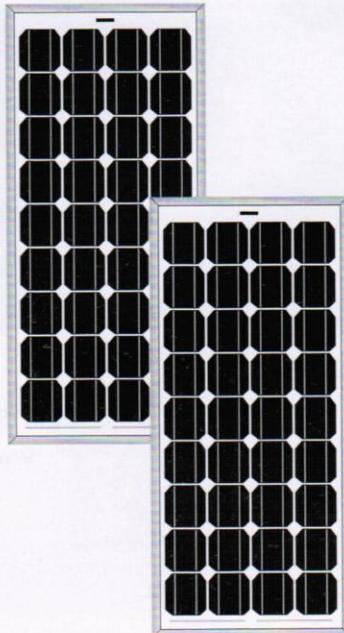


# 单晶125×125 MONO CL90WM-12/Aq-As

90WM-12

80WM-12

70WM-12



## Specifications 参数

Cell 电池片	Monocrystalline silicon solar cells 125mm*125mm
No.of cells and connections 电池片数量和排列	36 (9*4)
Dimension of module(mm) 组件尺寸(毫米)	1197*537*35
Weight 重量	8kg

## Characteristics 规格

Model 型号	90WM	80WM	70WM
Open circuit voltage(Voc) 开路电压	22V	21.8V	21.3V
Optimum operating voltage(Vmp) 工作电压	17.2V	17V	17V
Short circuit current (Isc) 断路电流	5.63A	5.1A	4.68A
Optimum operating current(Imp) 工作电流	5.23A	4.65A	4.14A
Efficiency Range(%) 效率	16.16%	14.36%	12.57%
Maximum power at STC(Pm) 功率	90W	80W	70W

STC:Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM=1.5 标准测试条件：光照度1000W/m<sup>2</sup>，组件温度25℃，大气质量=1.5

## Temperature and Coefficients 温度系数

NOCT 额定工作温度	48 °C ± 2 °C	
Current temperature coefficient 电流温度系数	%/k	0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k	-(155 ± 10)
Power temperature coefficient 功率温度系数	%/k	-(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

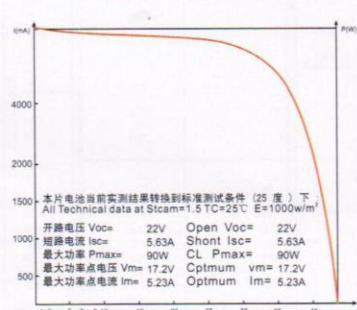
## Output 输出

Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

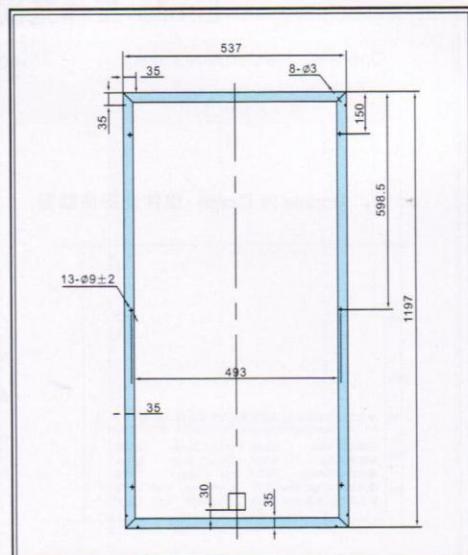
## Limits 工作范围

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

Module IV Graph 组件功率曲线图



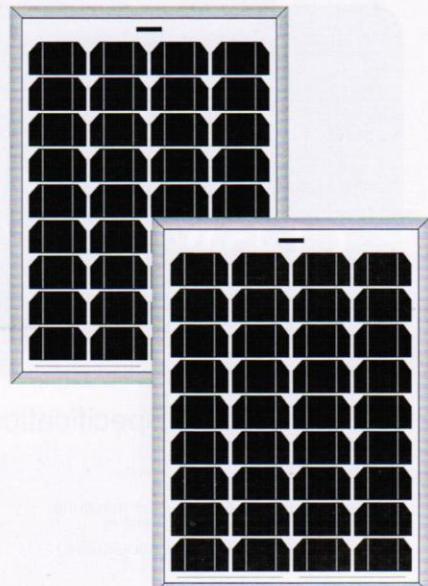
PV MODULE STRUCTURE  
组件结构图



**单晶83.3×125  
MONO  
CL60WM-12/At-Au**

60WM-12

50WM-12



**Specifications 参数**

Cell 电池片	Monocrystalline silicon solar cells 125mm*83.3mm
No.of cells and connections 电池片数量和排列	36 (4*9)
Dimension of module(mm) 组件尺寸(毫米)	810*537*30
Weight 重量	5kg

**Characteristics 规格**

Model 型号	60WM	50WM
Open circuit voltage(Voc) 开路电压	21.5V	21.5V
Optimum operating voltage(Vmp) 工作电压	17V	17V
Short circuit current (Isoc) 断路电流	3.79A	3.2A
Optimum operating current(Imp) 工作电流	3.53A	2.95A
Efficiency Range(%) 效率	16.16%	13.46%
Maximum power at STC(Pm) 功率	60W	50W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25°C,AM=1.5 标准测试条件: 光照度1000W/m<sup>2</sup>, 组件温度25°C, 大气质量=1.5

**Temperature and Coefficients 温度系数**

NOCT 额定工作温度	48 °C ± 2 °C
Current temperature coefficient 电流温度系数	%/k 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k -(155 ± 10)
Power temperature coefficient 功率温度系数	%/k -(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

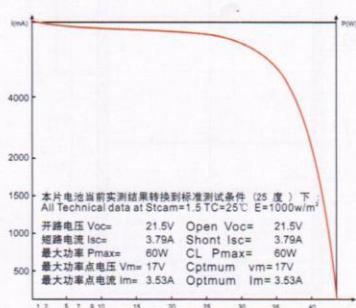
**Output 输出**

Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

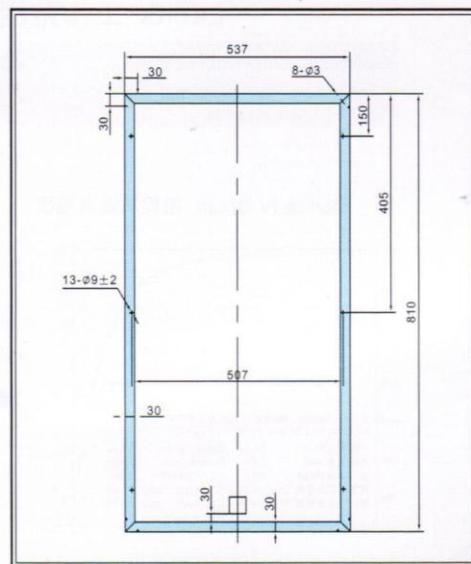
**Limits 工作范围**

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

**Module IV Graph 组件功率曲线图**



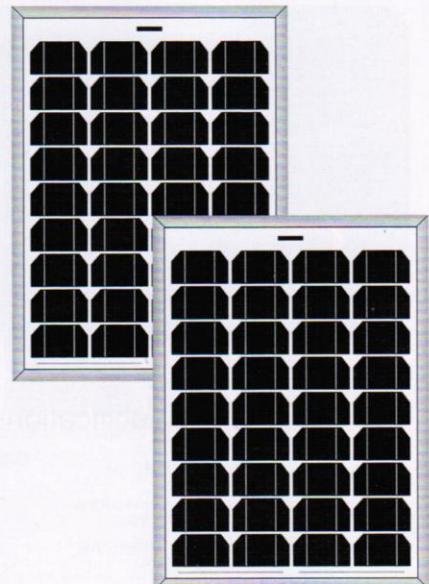
**PV MODULE STRUCTURE 组件结构图**



**单晶62.5×125  
MONO  
CL45WM-12/Av-Aw**

45WM-12

35WM-12



**Specifications 参数**

Cell 电池片	Monocrystalline silicon solar cells 62.5mm*125mm
No.of cells and connections 电池片数量和排列	36 (4*9)
Dimension of module(mm) 组件尺寸(毫米)	625*537*30
Weight 重量	4.5kg

**Characteristics 规格**

CL-12

Model 型号	45WM	35WM
Open circuit voltage(Voc) 开路电压	22.1V	21.3V
Optimum operating voltage(Vmp) 工作电压	18.2V	17.1V
Short circuit current (Isc) 断路电流	2.69A	2.34A
Optimum operating current(Imp) 工作电流	2.47A	2.05A
Efficiency Range(%) 效率	16.16%	12.57%
Maximum power at STC(Pm) 功率	45W	35W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25°C,AM=1.5 标准测试条件：光照度1000W/m<sup>2</sup>，组件温度25°C，大气质量=1.5

**Temperature and Coefficients 温度系数**

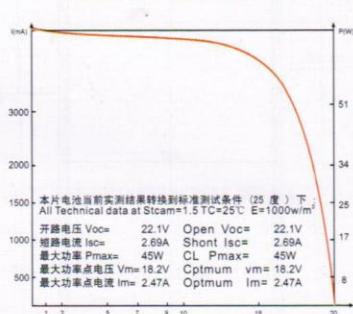
NOCT 额定工作温度		
Current temperature coefficient 电流温度系数	%/k	0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k	-(155 ± 10)
Power temperature coefficient 功率温度系数	%/k	-(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

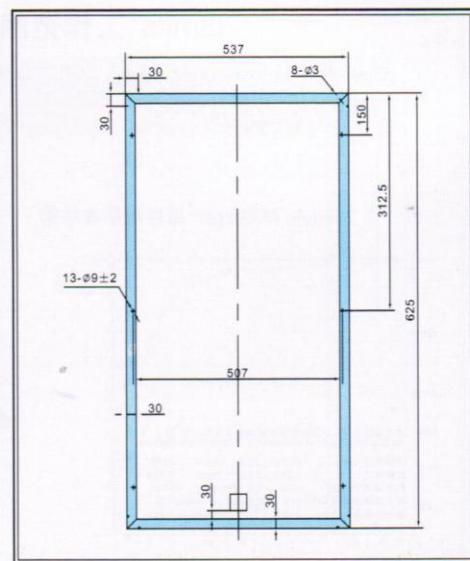
**Limits 工作范围**

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

Module IV Graph 组件功率曲线图



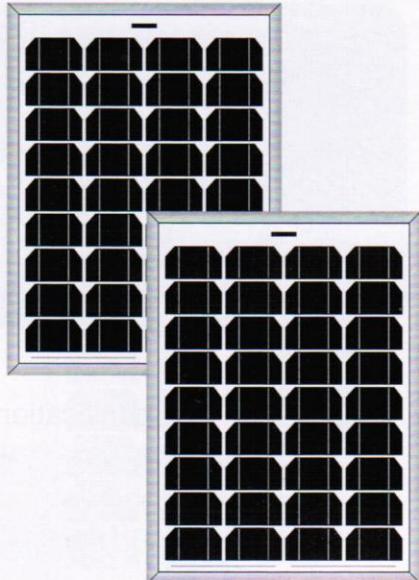
PV MODULE STRUCTURE  
组件结构图



# 单晶41.7×125 MONO CL30WM-12/Ax-Ay

30WM-12

25WM-12



## Specifications 参数

Cell 电池片	Monocrystalline silicon solar cells 125mm*41.7mm
No.of cells and connections 电池片数量和排列	36 (9*4)
Dimension of module(mm) 组件尺寸(毫米)	435*537*30
Weight 重量	3.5kg

## Characteristics 规格

CL-12

Model 型号	30WM	25WM
Open circuit voltage(Voc) 开路电压	21.5V	21.5V
Optimum operating voltage(Vmp) 工作电压	17V	17V
Short circuit current (Isc) 断路电流	1.92A	1.6A
Optimum operating current(Imp) 工作电流	1.76A	1.48A
Efficiency Range(%) 效率	17.95%	14.96%
Maximum power at STC(Pm) 功率	30W	25W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25°C,AM=1.5 标准测试条件：光照度1000W/m<sup>2</sup>，组件温度25°C，大气质量=1.5

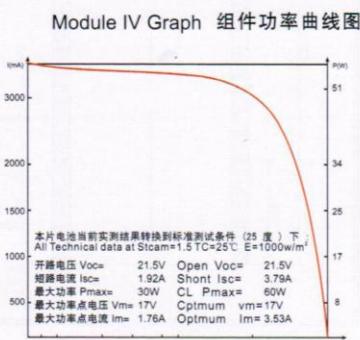
## Temperature and Coefficients 温度系数

NOCT 额定工作温度	48 °C ± 2 °C
Current temperature coefficient 电流温度系数	%/k 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k -(155 ± 10)
Power temperature coefficient 功率温度系数	%/k -(155 ± 10)

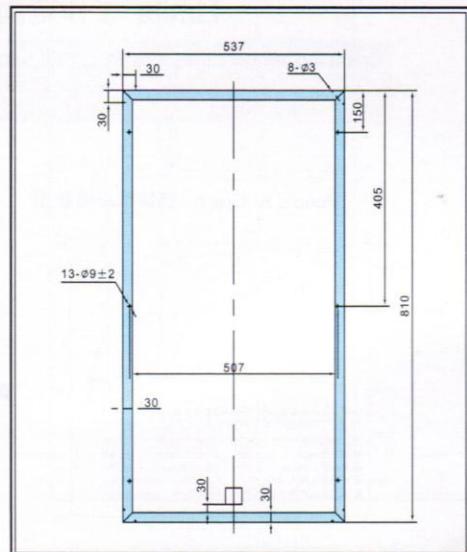
NOCT:Nominal Operation Cell Temperature 额定工作温度

## Limits 工作范围

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

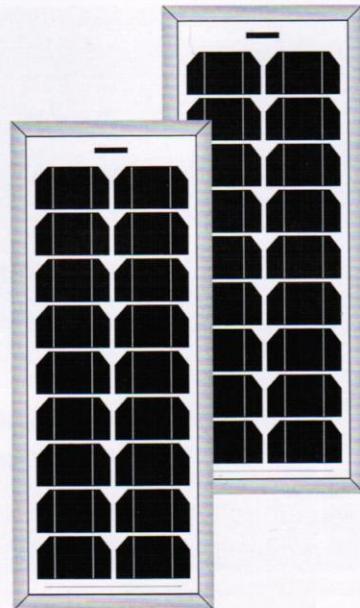


## PV MODULE STRUCTURE 组件结构图



**单晶 $62.5 \times 62.5$   
MONO  
CL20WM-12/Az**

20WM-12



**Specifications 参数**

Cell 电池片	Monocrystalline silicon solar cells 62.5mm*62.5mm
No.of cells and connections 电池片数量和排列	36 (9*4)
Dimension of module(mm) 组件尺寸(毫米)	625*290*25
Weight 重量	2.3kg

**Characteristics 规格**

Model 型号	20WM
Open circuit voltage(Voc) 开路电压	21.5V
Optimum operating voltage(Vmp) 工作电压	17V
Short circuit current (Isoc) 断路电流	1.28A
Optimum operating current(Imp) 工作电流	1.18A
Efficiency Range(%) 效率	14.3%
Maximum power at STC(Pm) 功率	20W

STC: Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM=1.5 标准测试条件: 光照度1000W/m<sup>2</sup>, 组件温度25°C, 大气质量=1.5

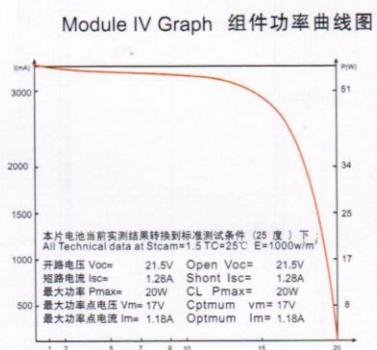
**Temperature and Coefficients 温度系数**

NOCT 额定工作温度		
Current temperature coefficient 电流温度系数	%/k	0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k	-(155 ± 10)
Power temperature coefficient 功率温度系数	%/k	-(155 ± 10)

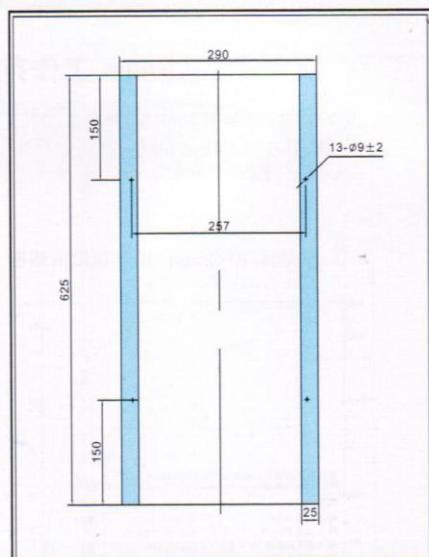
NOCT: Nominal Operation Cell Temperature 额定工作温度

**Limits 工作范围**

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

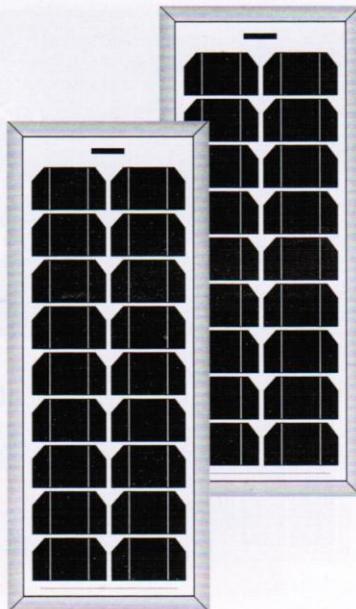


**PV MODULE STRUCTURE 组件结构图**



# 单晶31.25×62.5 MONO CL10WM-12/A1

10WM-12



## Specifications 参数

Cell 电池片	Monocrystalline silicon solar cells 31.25mm*62.5mm
No.of cells and connections 电池片数量和排列	36 (9*4)
Dimension of module(mm) 组件尺寸(毫米)	345*290*25
Weight 重量	1.3kg

## Characteristics 规格

Model 型号	CL
Open circuit voltage(Voc) 开路电压	10WM 21.5V
Optimum operating voltage(Vmp) 工作电压	17V
Short circuit current (Isc) 断路电流	0.65A
Optimum operating current(Imp) 工作电流	0.59A
Efficiency Range(%) 效率	17.15%
Maximum power at STC(Pm) 功率	10W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25℃,AM=1.5 标准测试条件：光照度1000W/m<sup>2</sup>，组件温度25℃，大气质量=1.5

## Temperature and Coefficients 温度系数

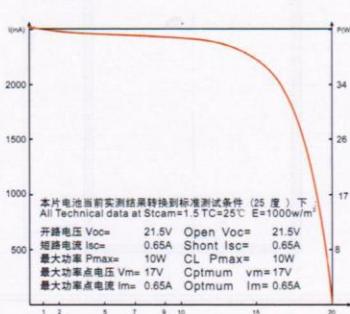
NOCT 额定工作温度	48 ℃ ± 2 ℃	
Current temperature coefficient 电流温度系数	%/k	0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k	-(155 ± 10)
Power temperature coefficient 功率温度系数	%/k	-(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

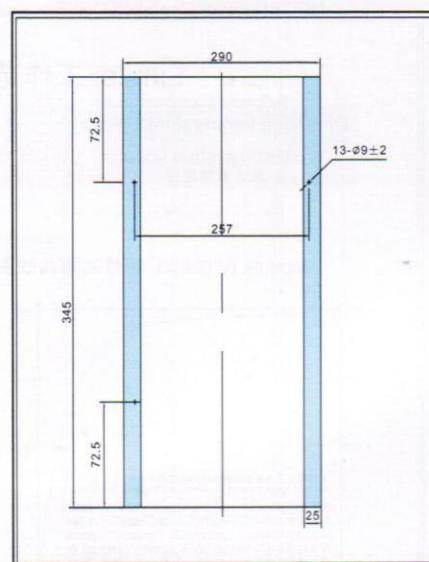
## Limits 工作范围

Operating temperature 工作温度	-40 to +85 ℃
Maximum system voltage 最大系统电压	1000 V DC

Module IV Graph 组件功率曲线图



PV MODULE STRUCTURE 组件结构图

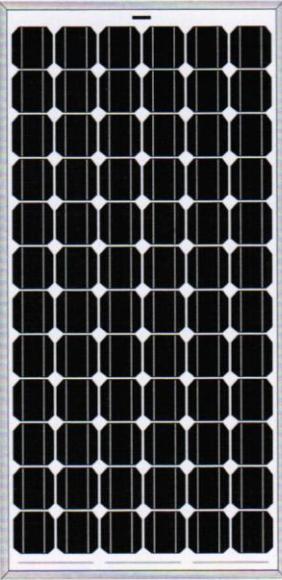


# 单晶156×156 Multicry CL280WM-24/Ca-Cc

280WM-24

270WM-24

260WM-24



## Specifications 参数

Cell 电池片	Monocrystalline silicon solar cells 156mm*156mm
No.of cells and connections 电池片数量和排列	72 (12*6)
Dimension of module(mm) 组件尺寸(毫米)	1956*992*50
Weight 重量	23kg

## Characteristics 规格

Model 型号	280WM	270WM	260WM
Open circuit voltage(Voc) 开路电压	45.07V	44.6V	44.2V
Optimum operating voltage(Vmp) 工作电压	35.3V	34.6V	34.4V
Short circuit current (Isc) 断路电流	8.39A	8.2A	8.1A
Optimum operating current(Imp) 工作电流	7.93A	7.8A	7.56A
Efficiency Range(%) 效率	15.98%	15.4%	14.83%
Maximum power at STC(Pm) 功率	280W	270W	260W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25°C,AM=1.5 标准测试条件: 光照度1000W/m<sup>2</sup>, 组件温度25°C, 大气质量=1.5

## Temperature and Coefficients 温度系数

NOCT 额定工作温度	48 °C ± 2 °C
Current temperature coefficient 电流温度系数	%/k 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k -(155 ± 10)
Power temperature coefficient 功率温度系数	%/k -(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

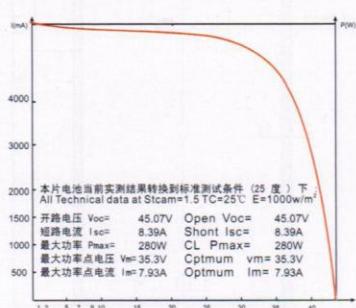
## CL-24

Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

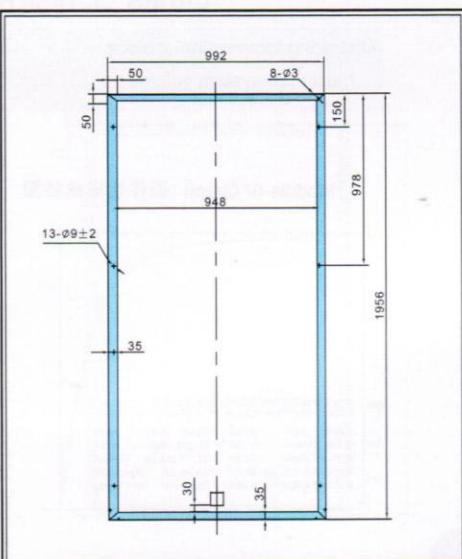
## Limits 工作范围

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

### Module IV Graph 组件功率曲线图



### PV MODULE STRUCTURE 组件结构图



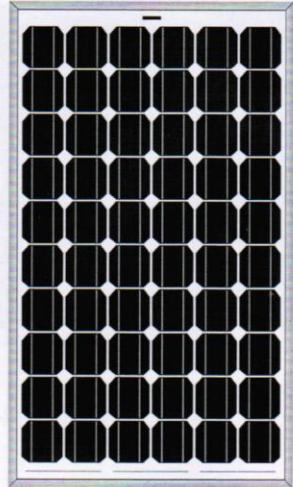
# 单晶156×156 MONO CL240WM-20-Cd-Cg

240WM-20

235WM-20

230WM-20

220WM-20



## Specifications 参数

Cell 电池片	Monocrystalline silicon solar cells 156mm*156mm
No.of cells and connections 电池片数量和排列	60 (10*6)
Dimension of module(mm) 组件尺寸(毫米)	1650*992*45
Weight 重量	19.5kg

## Characteristics 规格

CL-24

Model 型号	240WM	235WM	230WM	220WM
Open circuit voltage(Voc) 开路电压	36.4V	36.4V	36.4V	36.2V
Optimum operating voltage(Vmp) 工作电压	29.8V	29.8V	29.8V	29.6V
Short circuit current (Isc) 断路电流	9.15A	8.99A	8.49A	8.44A
Optimum operating current(Imp) 工作电流	8.05A	7.89A	7.71A	7.43A
Efficiency Range(%) 效率	16.43%	160%	15.75%	15.07%
Maximum power at STC(Pm) 功率	240W	235W	230W	220W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25°C,AM=1.5 标准测试条件: 光照度1000W/m<sup>2</sup>, 组件温度25°C, 大气质量=1.5

## Temperature and Coefficients 温度系数

NOCT 额定工作温度	48 °C ± 2 °C
Current temperature coefficient 电流温度系数	%/k 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k -(155 ± 10)
Power temperature coefficient 功率温度系数	%/k -(155 ± 10)

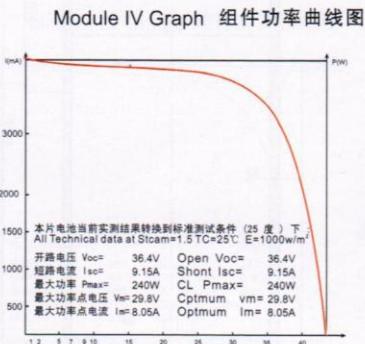
NOCT:Nominal Operation Cell Temperature 额定工作温度

## Output 输出

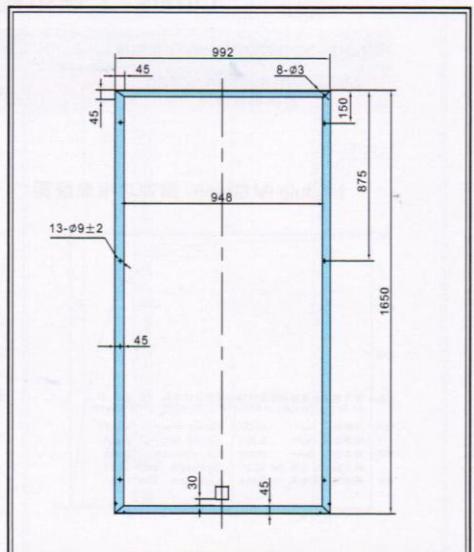
Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

## Limits 工作范围

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

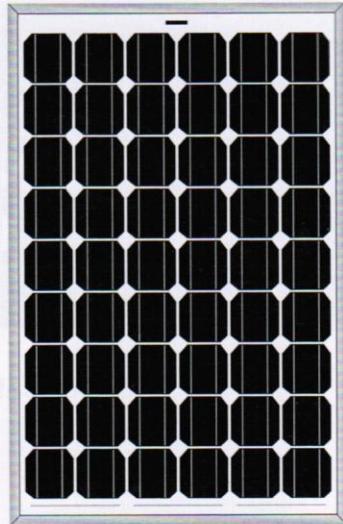


## PV MODULE STRUCTURE 组件结构图



# 单晶156×156 Multicry CL200WM-18/CH

200WM



## Specifications 参数

Cell 电池片	Monocrystalline silicon solar cells 156mm*156mm
No.of cells and connections 电池片数量和排列	54 (9*6)
Dimension of module(mm) 组件尺寸(毫米)	1482*992*45
Weight 重量	17.5kg

## Characteristics 规格

Model 型号	CL-18
Open circuit voltage(Voc) 开路电压	200WM
Optimum operating voltage(Vmp) 工作电压	32.5V
Short circuit current (Isc) 断路电流	27V
Optimum operating current(Imp) 工作电流	8.55A
Efficiency Range(%) 效率	7.41A
Maximum power at STC(Pm) 功率	15.22%
Maximum power at STC(Pm) 功率	200W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25°C,AM=1.5 标准测试条件：光照度1000W/m<sup>2</sup>，组件温度25℃，大气质量=1.5

## Temperature and Coefficients 温度系数

NOCT 额定工作温度	48 °C ± 2 °C
Current temperature coefficient 电流温度系数	%/k 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k -(155 ± 10)
Power temperature coefficient 功率温度系数	%/k -(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

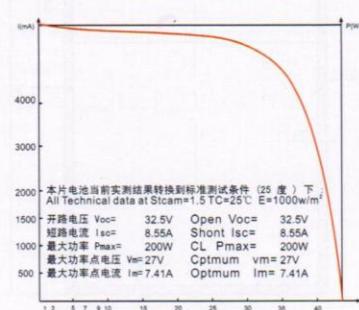
## Output 输出

Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

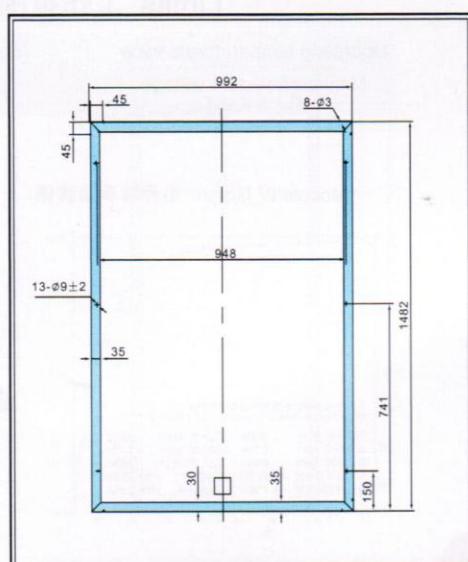
## Limits 工作范围

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

Module IV Graph 组件功率曲线图



PV MODULE STRUCTURE 组件结构图



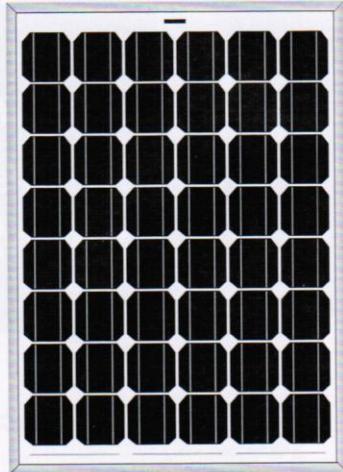
# 单晶156×156 MONO CL180WM-16/Ci-CL

180WM-16

170WM-16

160WM-16

150WM-16



## Specifications 参数

Cell 电池片	Monocrystalline silicon solar cells 156mm*156mm
No.of cells and connections 电池片数量和排列	48 (8*6)
Dimension of module(mm) 组件尺寸(毫米)	1320*992*35
Weight 重量	15.5kg

## Characteristics 规格

Model 型号	180WM	170WM	160WM	150WM
Open circuit voltage(Voc) 开路电压	29.6V	28.8V	28.4V	28.2V
Optimum operating voltage(Vmp) 工作电压	23.8V	23.7V	23.6V	23.6V
Short circuit current (Isoc) 断路电流	8.12A	8.02A	7.92A	7.84A
Optimum operating current(Imp) 工作电流	7.56A	7.17A	6.78A	6.35A
Efficiency Range(%) 效率	15.41%	14.55%	13.7%	12.85%
Maximum power at STC(Pm) 功率	180W	170W	160W	150W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25°C,AM=1.5 标准测试条件：光照度1000W/m<sup>2</sup>，组件温度25℃，大气质量=1.5

## Temperature and Coefficients 温度系数

NOCT 额定工作温度	48 °C ± 2 °C
Current temperature coefficient 电流温度系数	%/K 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/K -(155 ± 10)
Power temperature coefficient 功率温度系数	%/K -(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

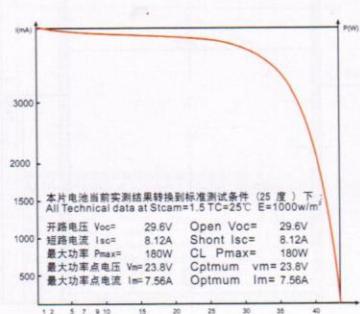
## Output 输出

Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

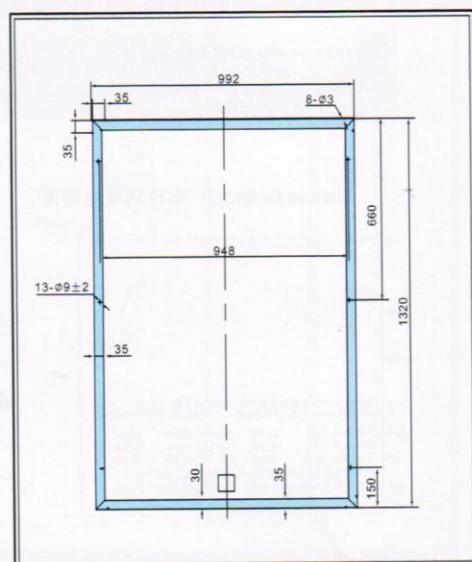
## Limits 工作范围

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

### Module IV Graph 组件功率曲线图



### PV MODULE STRUCTURE 组件结构图

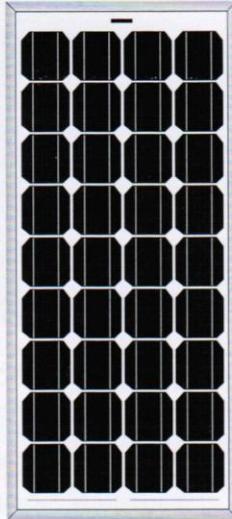


# 单晶156×156 MONO CL130WM-12-Cm-Co

130WM-12

120WM-12

100WM-12



## Specifications 参数

Cell 电池片	Monocrystalline silicon solar cells 156mm*156mm
No.of cells and connections 电池片数量和排列	36 (9*4)
Dimension of module(mm) 组件尺寸(毫米)	1475*665*35
Weight 重量	15kg

## Characteristics 规格

Model 型号	130WM	120WM	100WM
Open circuit voltage(Voc) 开路电压	21.5V	21V	21V
Optimum operating voltage(Vmp) 工作电压	17V	16.9V	16.3V
Short circuit current (Isc) 断路电流	8.52A	7.62A	7.58A
Optimum operating current(Imp) 工作电流	7.65A	7.1A	6.14A
Efficiency Range(%) 效率	14.84%	13.7%	11.41%
Maximum power at STC(Pm) 功率	130W	120W	100W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25°C,AM=1.5 标准测试条件：光照度1000W/m<sup>2</sup>，组件温度25°C，大气质量=1.5

## Temperature and Coefficients 温度系数

NOCT 额定工作温度	48 °C ± 2 °C
Current temperature coefficient 电流温度系数	%/k 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k -(155 ± 10)
Power temperature coefficient 功率温度系数	%/k -(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

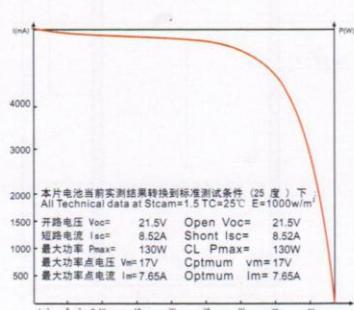
## Output 输出

Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

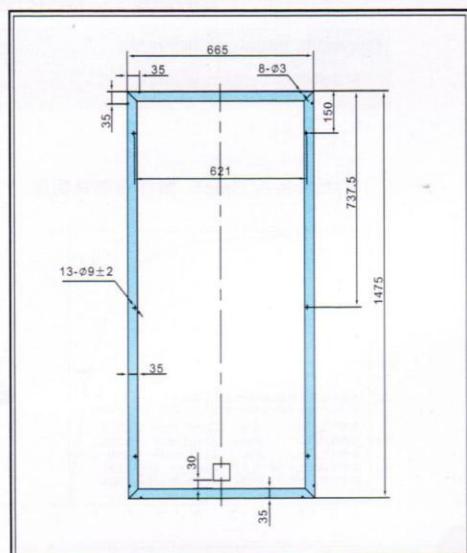
## Limits 工作范围

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

## Module IV Graph 组件功率曲线图



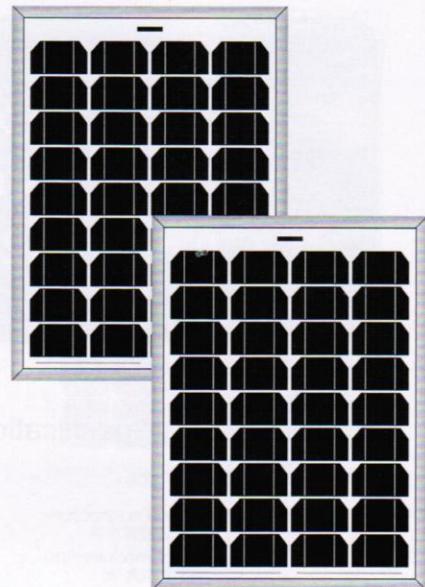
## PV MODULE STRUCTURE 组件结构图



# 单晶104×156 MONO CL90WM-12/Cp-Cg

90WM-12

80WM-12



## Specifications 参数

Cell 电池片	Monocrystalline silicon solar cells 104mm*156mm
No.of cells and connections 电池片数量和排列	36 (9*4)
Dimension of module(mm) 组件尺寸(毫米)	1010*665*35
Weight 重量	13kg

## Characteristics 规格

Model 型号	90WM	80WM
Open circuit voltage(Voc) 开路电压	22.1V	21.7V
Optimum operating voltage(Vmp) 工作电压	17.9V	17.3V
Short circuit current (Isc) 断路电流	5.39A	4.97A
Optimum operating current(Imp) 工作电流	5.03A	4.62A
Efficiency Range(%) 效率	15.69%	13.95%
Maximum power at STC(Pm) 功率	90W	80W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25°C,AM=1.5 标准测试条件: 光照度1000W/m<sup>2</sup>, 组件温度25°C, 大气质量=1.5

## Temperature and Coefficients 温度系数

NOCT 额定工作温度	48 °C ± 2 °C
Current temperature coefficient 电流温度系数	%/k 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k -(155 ± 10)
Power temperature coefficient 功率温度系数	%/k -(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

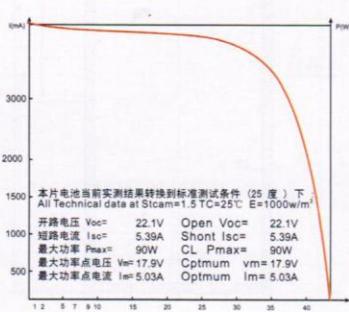
## Output 输出

Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

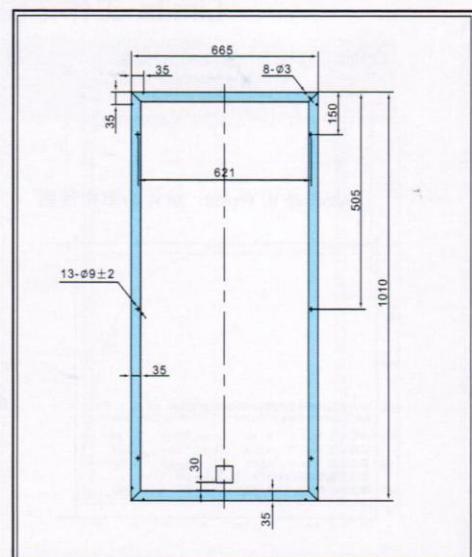
## Limits 工作范围

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

Module IV Graph 组件功率曲线图

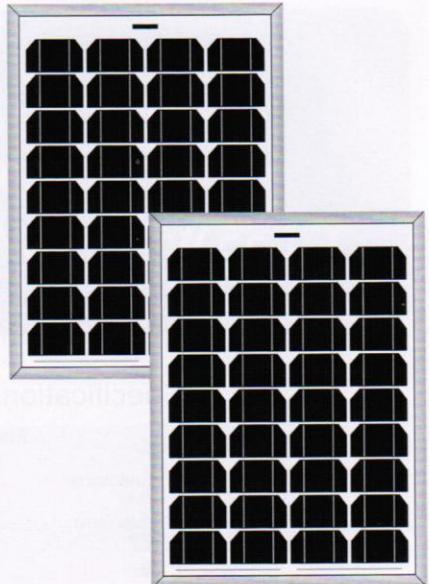


PV MODULE STRUCTURE 组件结构图



# 单晶78×156 MONO CL70WM-12-Cr

70WM-12



## Specifications 参数

Cell 电池片	Monocrystalline silicon solar cells 78mm*156mm
No.of cells and connections 电池片数量和排列	36 (9*4)
Dimension of module(mm) 组件尺寸(毫米)	765*665*35
Weight 重量	6kg

## Characteristics 规格

Model 型号	70WM
Open circuit voltage(Voc) 开路电压	22.1V
Optimum operating voltage(Vmp) 工作电压	17.5V
Short circuit current (Isc) 断路电流	4.32A
Optimum operating current(Imp) 工作电流	4A
Efficiency Range(%) 效率	15.98%
Maximum power at STC(Pm) 功率	70W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25℃,AM=1.5 标准测试条件：光照度1000W/m<sup>2</sup>，组件温度25℃，大气质量=1.5

## Temperature and Coefficients 温度系数

NOCT 额定工作温度	48 ℃ ± 2 ℃
Current temperature coefficient 电流温度系数	%/k 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k -(155 ± 10)
Power temperature coefficient 功率温度系数	%/k -(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

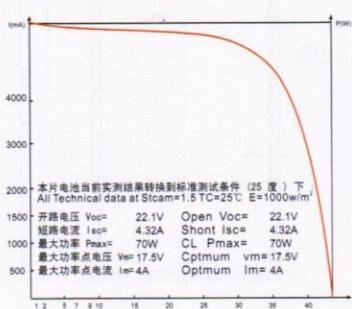
## Output 输出

Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

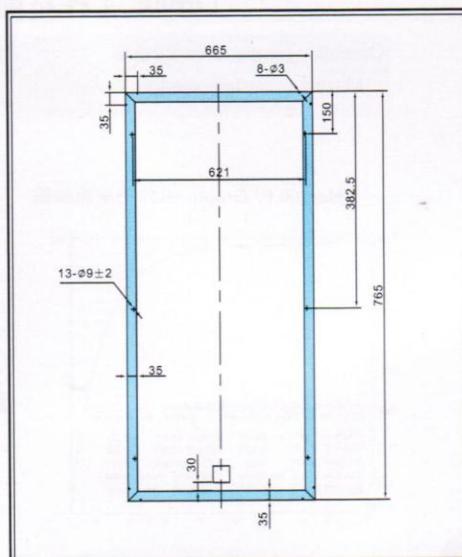
## Limits 工作范围

Operating temperature 工作温度	-40 to +85 ℃
Maximum system voltage 最大系统电压	1000 V DC

## Module IV Graph 组件功率曲线图



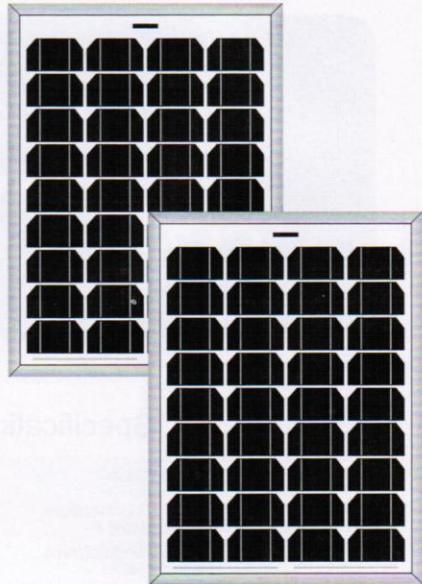
## PV MODULE STRUCTURE 组件结构图



# 单晶62.5×156 MONO CL55WM-12/Cs-Ct

55WM-12

50WM-12



## Specifications 参数

Cell 电池片	Monocrystalline silicon solar cells 62.5mm*156mm
No.of cells and connections 电池片数量和排列	36 (9*4)
Dimension of module(mm) 组件尺寸(毫米)	625*665*35
Weight 重量	5.5kg

## Characteristics 规格

Model 型号	55WM	50WM
Open circuit voltage(Voc) 开路电压	22.2V	21.4V
Optimum operating voltage(Vmp) 工作电压	17.9V	17.3V
Short circuit current (Isc) 断路电流	3.33A	3.08A
Optimum operating current(Imp) 工作电流	3.07A	2.89A
Efficiency Range(%) 效率	15.69%	14.27%
Maximum power at STC(Pm) 功率	55W	50W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25°C,AM=1.5 标准测试条件: 光照度1000W/m<sup>2</sup>, 组件温度25°C, 大气质量=1.5

## Temperature and Coefficients 温度系数

NOCT 额定工作温度	48 °C ± 2 °C
Current temperature coefficient 电流温度系数	%/k 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k -(155 ± 10)
Power temperature coefficient 功率温度系数	%/k -(155 ± 10)

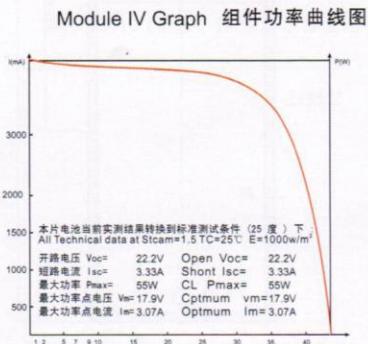
NOCT:Nominal Operation Cell Temperature 额定工作温度

## Output 输出

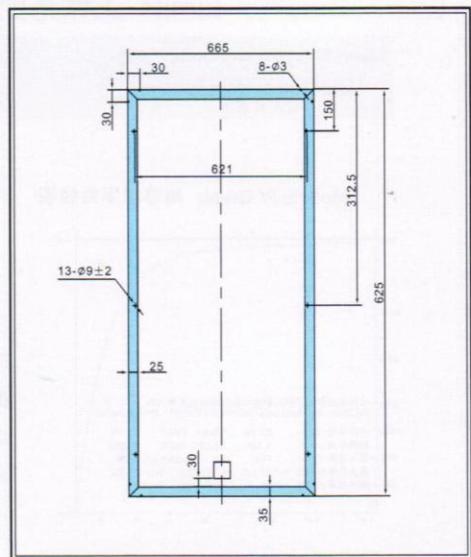
Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

## Limits 工作范围

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC



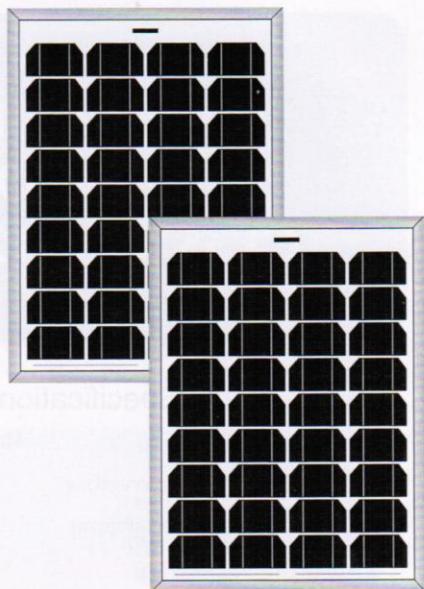
## PV MODULE STRUCTURE 组件结构图



**单晶52×156  
MONO  
CL45WM-12-Cr**

45WM-12

40WM-12



**Specifications 参数**

Cell 电池片	Monocrystalline silicon solar cells 52mm*156mm
No.of cells and connections 电池片数量和排列	36 (9*4)
Dimension of module(mm) 组件尺寸(毫米)	530*665*30
Weight 重量	6kg

**Characteristics 规格**

Model 型号	45WM	40WM
Open circuit voltage(Voc) 开路电压	22.1V	21.8V
Optimum operating voltage(Vmp) 工作电压	18.5V	18.3V
Short circuit current (Isoc) 断路电流	2.67A	2.39A
Optimum operating current(Imp) 工作电流	2.43A	2.19A
Efficiency Range(%) 效率	15.41%	13.7%
Maximum power at STC(Pm) 功率	45W	40W

STC:Irradiance 1000W/m<sup>2</sup>,Module temperature 25°C,AM=1.5 标准测试条件：光照度1000W/m<sup>2</sup>，组件温度25°C，大气质量=1.5

**Temperature and Coefficients 温度系数**

NOCT 额定工作温度	48 °C ± 2 °C	
Current temperature coefficient 电流温度系数	%/k	0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k	-(155 ± 10)
Power temperature coefficient 功率温度系数	%/k	-(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

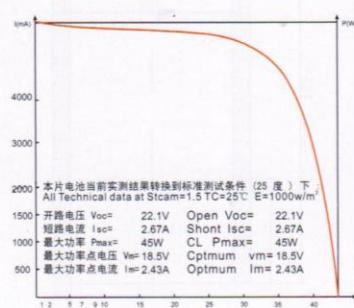
**Output 输出**

Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

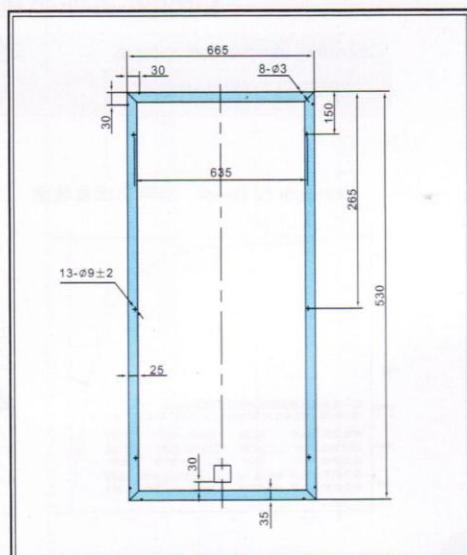
**Limits 工作范围**

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

Module IV Graph 组件功率曲线图

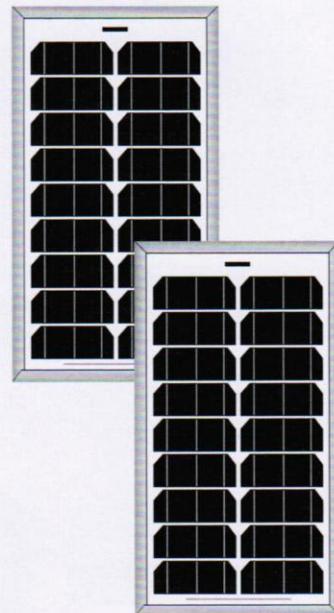


PV MODULE STRUCTURE 组件结构图



**单晶26×78  
MONO  
CL10WM-12-Cz**

**10WM-12**



**Specifications 参数**

Cell 电池片	Monocrystalline silicon solar cells 26mm*78mm
No.of cells and connections 电池片数量和排列	36 (9*4)
Dimension of module(mm) 组件尺寸(毫米)	295*355*25
Weight 重量	2kg

**Characteristics 规格**

Model 型号	10WM
Open circuit voltage(Voc) 开路电压	21.6V
Optimum operating voltage(Vmp) 工作电压	18.1V
Short circuit current (Isc) 断路电流	0.62A
Optimum operating current(Imp) 工作电流	0.55A
Efficiency Range(%) 效率	13.7%
Maximum power at STC(Pm) 功率	10W

STC:Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM=1.5 标准测试条件：光照度1000W/m<sup>2</sup>，组件温度25°C，大气质量=1.5

**Temperature and Coefficients 温度系数**

NOCT 额定工作温度	48 °C ± 2 °C
Current temperature coefficient 电流温度系数	%/k 0.06 ± 0.01
Voltage temperature coefficient 电压温度系数	mV/k -(155 ± 10)
Power temperature coefficient 功率温度系数	%/k -(155 ± 10)

NOCT:Nominal Operation Cell Temperature 额定工作温度

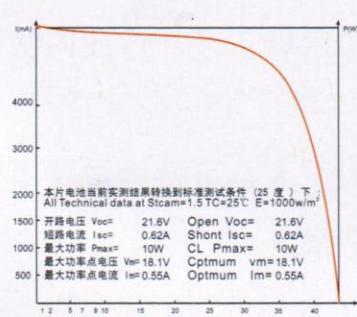
**Output 输出**

Type of output terminal 输出接口类型	Junction box 接线盒
Cable 电缆线	LAPP(4.0mm <sup>2</sup> )
Asymmetrical lengths 电缆连接长度	900mm
Connection 接头	Standard Plug and Socket 标准公母接头

**Limits 工作范围**

Operating temperature 工作温度	-40 to +85 °C
Maximum system voltage 最大系统电压	1000 V DC

**Module IV Graph 组件功率曲线图**



**PV MODULE STRUCTURE 组件结构图**

