



中信博“绿电+智慧能源”战略板块合作方

UNISOLAR **产品手册**

Product Manuals

夏能科技(北京)有限公司技术授权 授权生产商:中信博光电科技(宿松)有限公司

产品应用

轻刚系列应用



光储充快装车位

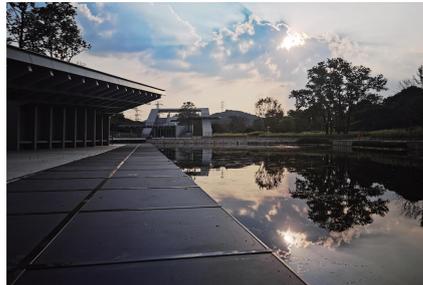


阳台电站

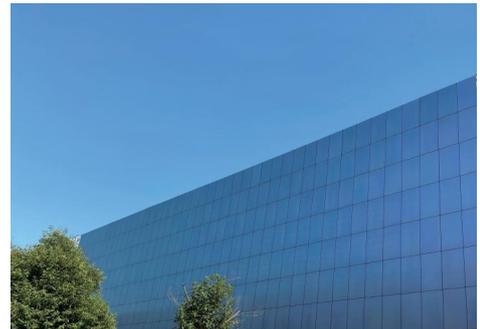


户外发电板

光路系列应用



彩玻系列建筑应用



合作伙伴

住建部科技与产业化发展中心



中建科工集团
中建科技集团
中建科创集团



国家电投
SPIC



规划总院
HENAN URBAN PLANNING
河南省城乡规划规划设计研究总院



BIAD
北京华建建筑设计研究院有限公司
BEIJING INSTITUTE OF ARCHITECTURAL DESIGN



中国华能集团公司
CHINA HUANENG GROUP



中国通用技术集团
China General Technology



中广核
CGN
中国广核集团有限公司



珠海港
珠海港股份有限公司



中建三局

产品优势

美观高效

丝帛光泽, 流光变幻
专利色彩呈现技术

建筑美学与发电建
材的完美结合,
多彩面板, 金属光泽

太阳光能透过效率
第一的彩色膜技术

超强坚韧 极致轻盈

弯曲强度 400MPa
是钢化玻璃2-3倍

正面荷载强度
5400PA

新型高分子聚合物
刚性材料,
低隐裂风险

最大保留
屋顶安全荷载余量

材料科技

专利高分子聚合纤
维封装材料

高寿命
改性聚合物配方,
材料全生命周期碳
排放极低

全新光学控制、强化
技术的玻璃材料

制备工艺

专利技术
全国产化

创新生产工艺:
多态多层材料一体
化复合工艺

定制化装备:
多产品兼容一体化
自动装备

彩玻

轻刚

材料

装备

产品认证



TUV NORD CERTIFICATE

TUV NORD CERT GmbH
Hertwich-HeimstraÙe 11
42699 Solingen, Germany

UNISOLAR Technology (Beijing) Co., Ltd
Room 12A, Building 3, Chaoyang Center, Laiguangyuan Street,
Chaoyang District, Beijing,
P.R. China

is authorized to provide the product mentioned below with the mark as illustrated:

Description of product (details see Annex 2):
Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

Valid from: 2023-09-18
Valid until: 2028-09-17

Registered No.: 44 780 23 450749 - 305
Manufacturer: 460012087 001
File No.: PVP1021/02P-01

Essex, 2023-09-18



ATTESTATION CERTIFICATE

ATTESTATION
CERTIFICATE OF LOW VOLTAGE DIRECTIVE

The company mentioned below has been observed and audit has been completed successfully.

Room 1209, lower 1A, Chaoyang District, Beijing, China

UNISOLAR Technology (Changzhou) Co., Ltd

Room 302, Building 3, Electronic equipment industry Park,
No.368 Xuyuanmiaoqiang Road, Tanggu District, Tanggu, China

Low Voltage Directive 2014/35/EU

EN IEC 61730-1:2016, EN IEC 61215-1:2021

Photovoltaic Module

2NCT302070001

US 1209, US 1209P, US 1209M, US 1221, US 1221P, US 1221M, US 1230, US 1230P, US 1230M, US 1231, US 1231P, US 1231M, US 1240, US 1240P, US 1240M, US 1241, US 1241P, US 1241M, US 1250, US 1250P, US 1250M, US 1251, US 1251P, US 1251M, US 1260, US 1260P, US 1260M, US 1261, US 1261P, US 1261M, US 1270, US 1270P, US 1270M, US 1271, US 1271P, US 1271M, US 1280, US 1280P, US 1280M, US 1281, US 1281P, US 1281M, US 1290, US 1290P, US 1290M, US 1291, US 1291P, US 1291M, US 1300, US 1300P, US 1300M, US 1301, US 1301P, US 1301M, US 1310, US 1310P, US 1310M, US 1311, US 1311P, US 1311M, US 1320, US 1320P, US 1320M, US 1321, US 1321P, US 1321M, US 1330, US 1330P, US 1330M, US 1331, US 1331P, US 1331M, US 1340, US 1340P, US 1340M, US 1341, US 1341P, US 1341M, US 1350, US 1350P, US 1350M, US 1351, US 1351P, US 1351M, US 1360, US 1360P, US 1360M, US 1361, US 1361P, US 1361M, US 1370, US 1370P, US 1370M, US 1371, US 1371P, US 1371M, US 1380, US 1380P, US 1380M, US 1381, US 1381P, US 1381M, US 1390, US 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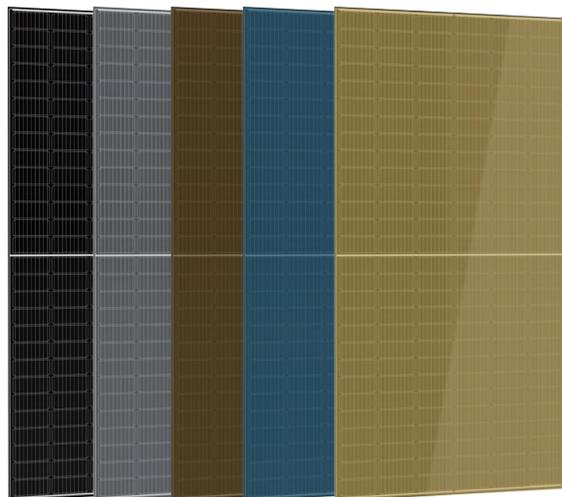
电性能参数

颜色	黑色	蓝色	金色	银色	铜色
产品功率 (W)	565	490	440	475	445
最佳工作电压 V_{mop} (V)	46.02	45.57	45.28	45.55	45.22
最佳工作电流 I_{mop} (A)	12.28	10.75	9.72	10.43	9.84
开路电压 V_{oc} (V)	53.27	52.83	52.53	52.81	52.54
短路电流 I_{sc} (A)	12.85	11.31	10.22	10.97	10.37

标准测试条件：辐照度1000W/m²，电池片温度25℃，大气质量AM1.5

机械性能参数

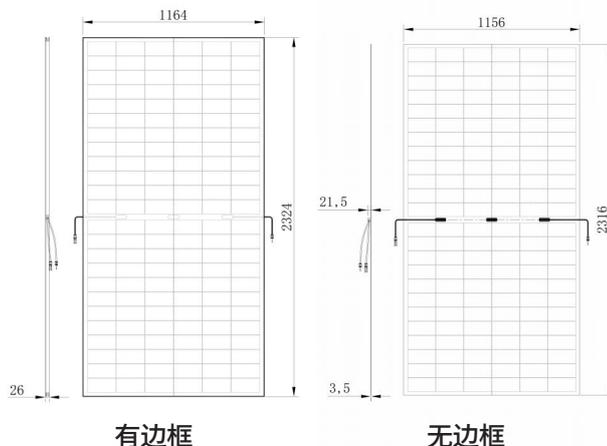
类别	有边框	无边框
产品尺寸 (mm)	2324*1164*26	2316*1156*4
产品重量 (kg/m ²)	7	4.5
前板材料	高强度高分子复合前板	
背板材料	聚合物复合纤维衬板	
接线盒	背部三分体接线盒	正面三分体接线盒
包装信息 (mm)	包装箱2340*1130*1280 39片/托	包装箱2450*1140*1320 48片/托



其他重要参数

工作温度	-40℃~+85℃
功率温度系数	-0.38%/℃
最大系统电压	1500VDC
电缆接头	MC4

更多颜色或尺寸定制请咨询销售



申明：该产品目录中的电性能参数并不单指一块组件，也并不是合约中的承诺内容。电性能参数用做不同组件类型间的比较，由于不断研发和产品改良，聚芯有权随时调整本技术参数文件中的信息。

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电性能参数

颜色	透光	蓝色透光
产品功率 (W)	360	315
最佳工作电压 V_{mop} (V)	28.91	26.82
最佳工作电流 I_{mop} (A)	12.46	11.74
开路电压 V_{oc} (V)	33.30	29.53
短路电流 I_{sc} (A)	13.13	12.93

标准测试条件：辐照度 $1000W/m^2$ ，电池片温度 $25^{\circ}C$ ，大气质量AM1.5

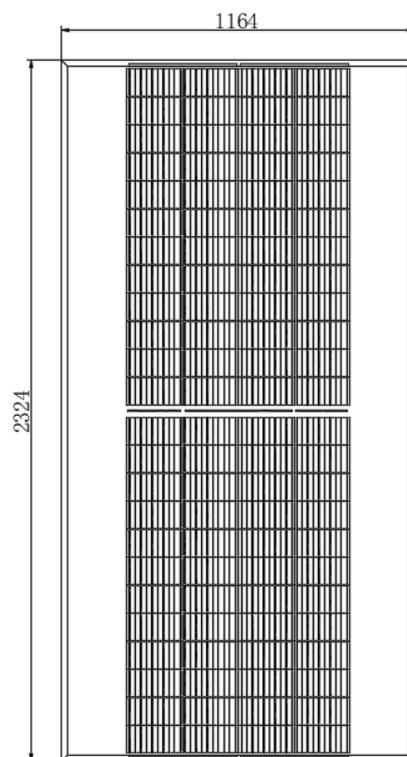
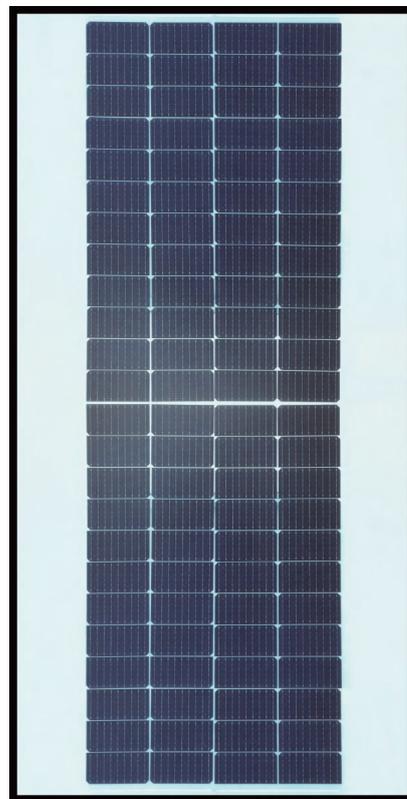
机械性能参数

产品尺寸 (mm)	2324*1164*26
产品重量 (kg/m^2)	6.9
前板材料	高强度高分子复合前板
背板材料	聚合物复合纤维衬板
边框材料	聚氨酯复合纤维
接线盒	背部分体接线盒
包装信息	包装箱尺寸 $2340*1130*1280mm$ 39片/托

其他重要参数

工作温度	$-40^{\circ}C \sim +85^{\circ}C$
功率温度系数	$-0.38\%/^{\circ}C$
最大系统电压	1500VDC
电缆接头	MC4

更多颜色或尺寸定制请咨询销售



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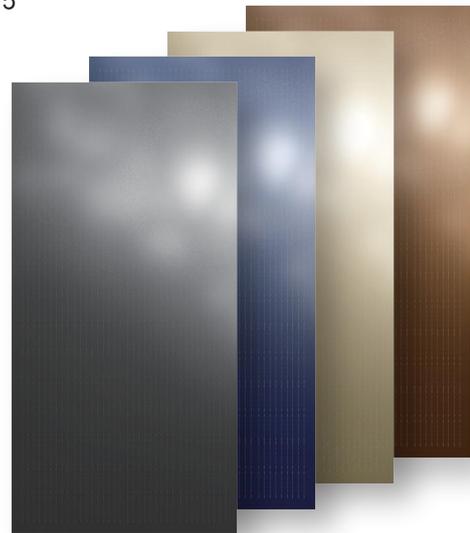
电性能参数

颜色	黑色	彩色
产品功率 (W)	195	175
最佳工作电压 V_{mop} (V)	17.97	17.10
最佳工作电流 I_{mop} (A)	10.85	10.06
开路电压 V_{oc} (V)	21.15	20.06
短路电流 I_{sc} (A)	11.12	10.59

标准测试条件：辐照度 $1000W/m^2$ ，电池片温度 $25^{\circ}C$ ，大气质量AM1.5

机械性能参数

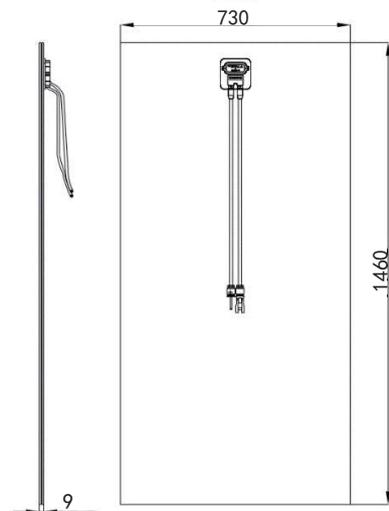
发电面板尺寸 (mm)	1460*730*9
发电面板重量 (kg)	22.2
前板材料	超白镀膜钢化玻璃
背板材料	高温丝网印刷低铁玻璃
包装信息	包装箱尺寸：1525*1030*910mm 24片/箱；696片/40尺柜



其他重要参数

工作温度	$-40^{\circ}C \sim +85^{\circ}C$
功率温度系数	$-0.38\%/^{\circ}C$
最大系统电压	1000VDC
电缆接头	MC4
其他颜色	深蓝/银灰/金色/咖色

更多颜色或尺寸定制请咨询销售



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电性能参数

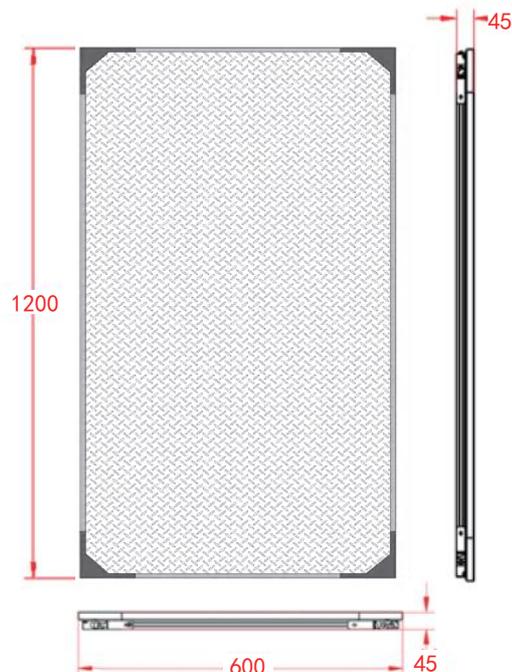
产品功率 (W)	90
最佳工作电压 V_{mop} (V)	18.18
最佳工作电流 I_{mop} (A)	4.95
开路电压 V_{oc} (V)	22.63
短路电流 I_{sc} (A)	5.23
灯带功率 (选装, W)	25

标准测试条件: 辐照度 $1000W/m^2$, 电池片温度 $25^{\circ}C$, 大气质量AM1.5



机械性能参数

组件尺寸 (mm)	1200*600*45
组件重量 (kg)	28
前板材料	特种防滑玻璃
防滑系数	BPN > 60
包装信息	包装箱尺寸: 1270*670*730mm 12片/箱



其他重要参数

工作温度	$-40^{\circ}C \sim +85^{\circ}C$
功率温度系数	$-0.38\%/^{\circ}C$
最大系统电压	1000VDC
电缆接头	MC4
灯带电压	12V

更多颜色或尺寸定制请咨询销售



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