

celesta®

Plate-Interconnection Series

CL480M-PI ~ CL500M-PI

Ultra-High Efficient Plate-Interconnection
Monocrystalline PV Modules



ULTRA-HIGH POWER OUTPUT

Maximum power output can be increased by 15% compared with the standard modules when solar cells with the same efficiency are used



HOT-SPOT IMMUNITY

Excellent hot-spot immunity, can effectively avoid the power loss caused by shadow coverage, significantly extend life span



DURABILITY AND RELIABILITY ENHANCEMENTS

Microcrack free, easy installation, power generating capacity is more secured

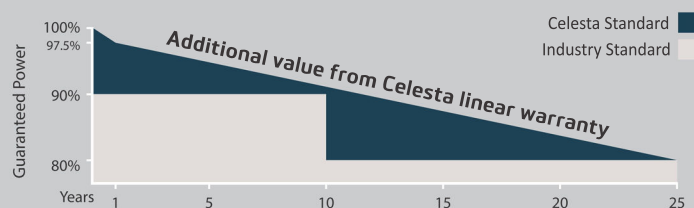


LOW LCOE

Savings in BOS and labour cost

LINEAR PERFORMANCE WARRANTY

12-year product warranty / 25-year linear power warranty



Mechanical Data

Cell	166mm Mono
Module Dimension	2248×1038×40mm
Weight	26.0kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	Anti-aging film
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm ² positive pole: 1200 mm negative pole: 1200 mm wire length can be customized
Connector	MC4 compatible connector

CL480M-PI ~ CL500M-PI

Ultra-High Efficient Plate-Interconnection Monocrystalline PV Modules

Electrical Data (STC)

Maximum Power (Pmax/W)	480	485	490	495	500
Voltage at Maximum Power (Vmp/V)	45.02	45.22	45.42	45.62	45.82
Current at Maximum Power (Imp/A)	10.67	10.74	10.80	10.86	10.92
Open Circuit Voltage (Voc/V)	54.40	54.60	54.80	55.00	55.20
Short Circuit Current (Isc/A)	11.21	11.29	11.35	11.41	11.45
Module Efficiency (%)	20.57	20.78	21.00	21.21	21.43

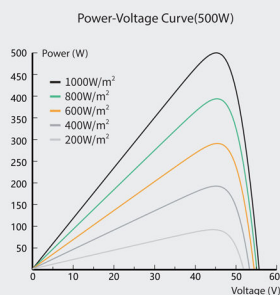
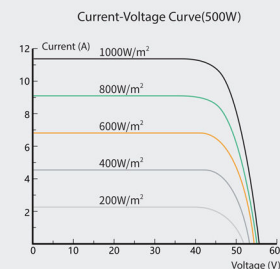
Electrical Data (NMOT)

Maximum Power (Pmax/W)	359	363	367	371	375
Voltage at Maximum Power (Vmp/V)	41.35	41.55	41.75	41.95	42.15
Current at Maximum Power (Imp/A)	8.69	8.75	8.80	8.85	8.91
Open Circuit Voltage (Voc/V)	49.98	50.18	50.38	50.58	50.78
Short Circuit Current (Isc/A)	9.35	9.42	9.46	9.53	9.59

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5

NMOT (Nominal Module Operating Temperature): Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.

I-V Curve



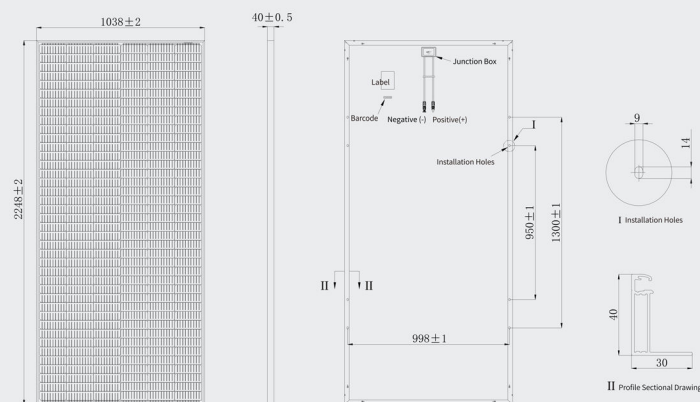
Temperature Coefficients

Temperature Coefficient (Pm)	-0.300%/°C
Temperature Coefficient (Voc)	-0.270%/°C
Temperature Coefficient (Isc)	0.048%/°C

Operating Parameters

Maximum System Voltage	1000/1500V
Operating Temperature	-40°C ~+85°C
NMOT (Nominal Module Operating Temperature)	41±3°C

Module Dimensions (mm)



Packaging

Modules Per Pallet:	27+27pcs / 27+27+2pcs
Modules Per 40'HQ Container:	540pcs / 560pcs

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