

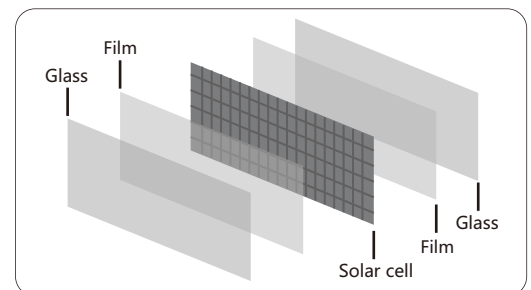
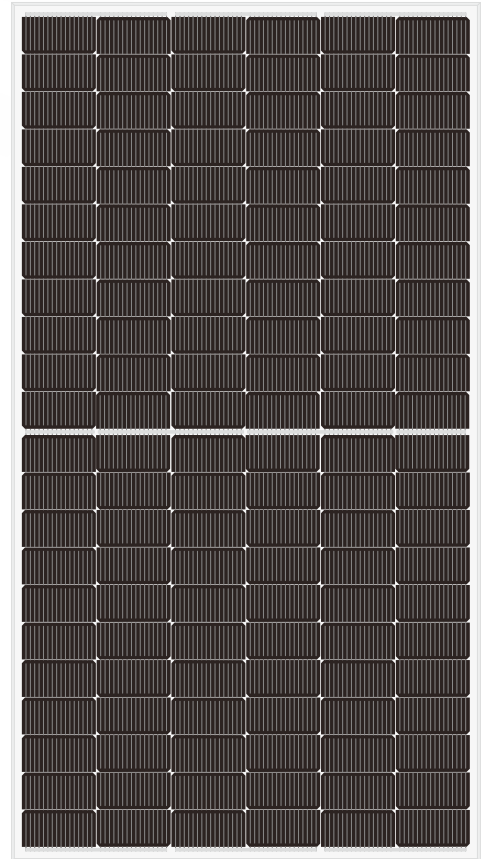
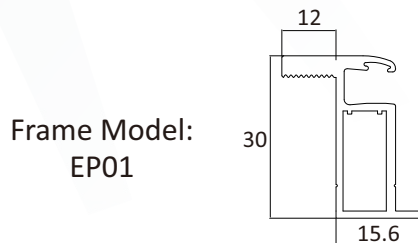


PERLIGHT SOLAR
Powering Possibilities

GREENHOUSE
Made by Perlight

PLM-550DH8N-132

Solar Module for Greenhouse Integrated Photovoltaic (GIPV) Systems



Front Glass: 2.0mm High Transmission AR Tempered Glass
Rear Glass: 2.0mm Semi-Tempered Glass

Agricultural buildings Greenhouses Traditional buildings

Our panels for Greenhouse Integrated Photovoltaic (GIPV) systems are designed with the customer's needs in mind. Our EP01 frame fits most standard Greenhouse systems available on the market and guarantees a watertight solution. Laminates can be produced according customer's specification with light transmission of 5 to 60%.



**Product
Warranty**



**Power
Warranty**

PID FREE

According to IEC TS 62804-1 standards



STÄUBLI

Insurance

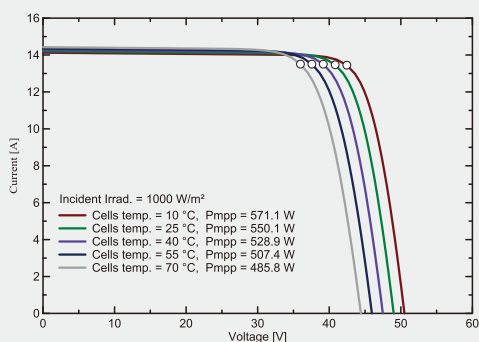
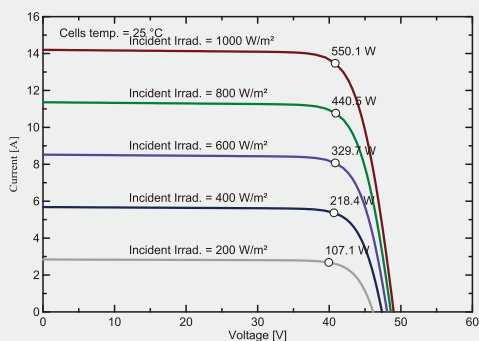
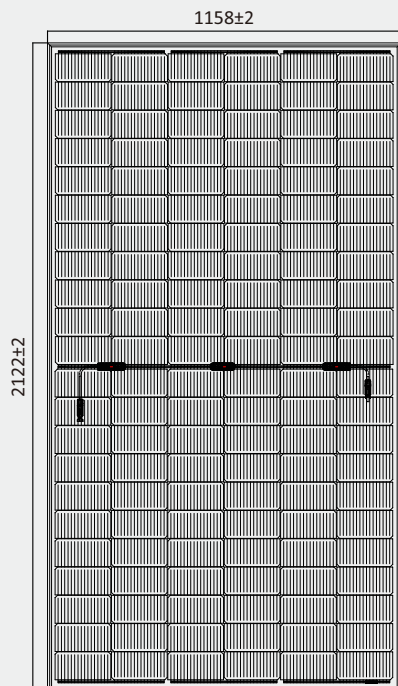
PICC



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+86-576-86477290 | enquiry@perlight.com | Version: PLM_EN_2026V2

Always check for the latest update



Perlight Partners

Electrical Characteristics | STC*

Nominal Power Watt Pmax (W)*	540	545	550
Power Output Tolerance Pmax (%)	±3	±3	±3
Maximum Power Voltage Vmp (V)	40.61	40.74	40.87
Maximum Power Current Imp (A)	13.30	13.38	13.46
Open Circuit Voltage Voc (V)	48.35	48.80	49.00
Short Circuit Current-Isc (A)	13.88	14.15	14.20
Module Efficiency (%)	22.14	22.34	22.54

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*Measuring Tolerance: 2.8%

Electrical Characteristics | NMOT*

Maximum Power Pmax (Wp)	408	411	415
Maximum Power Voltage Vmpp (V)	38.02	38.14	38.26
Maximum Power Current Imp (A)	10.74	10.80	10.86
Open Circuit Voltage Voc (V)	45.26	45.68	45.86
Short Circuit Current-Isc (A)	11.10	11.32	11.36

*NMOT (Test Condition): Irradiance 800W/m², Cell Temperature 20°C, AM 1.5 Wind Speed 1m/s

Mechanical Data

Solar Cells	N Type Monocrystalline Cell
Cells Orientation	132 [6×22]
Module Dimension	2122×1158×30mm(L×W×H)
Weight	31Kg
Front Glass / Rear Glass	2.0mm High Transmission AR Tempered Glass / 2.0mm Semi-Tempered Glass
Junction Box	IP 68, 3 Diodes
Cable	STÄUBLI Mc4 EVO 2A, 4mm ² / (+)100mm; (-)200mm Length or Customized
Frame	Anodized Aluminum Alloy Frame

Temperature Ratings

NMOT	45±2°C
Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C

Working Conditions

Maximum System Voltage	1500 V DC
Operating Temperature	-40°C~85°C
Maximum Series Fuse	30A
Maximum Load (Snow/Wind)	5400Pa / 2400Pa

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

*Remark: Electrical data in this catalog do not refer to a single module and they are not part of the other. They only serve for comparison among different module types.

Packaging Configuration

Piece / Pallet	32
Piece / Container (40HQ)	576
Piece / Container (with additional small package)	/