



PERLIGHT SOLAR
Powering Possibilities

NTA DOUBLE GLASS 455W

PLM-455DH8NHB-96 SERIES

N-TYPE MONO BLACK MODULE



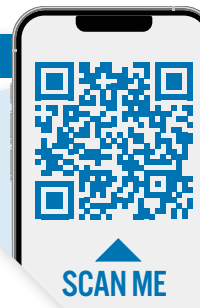
ADVANCED CELL TECHNOLOGY
DELIVERS 22.8% EFFICIENCY FOR
MAXIMUM ENERGY GENERATION



30 YEARS LIMITED
PRODUCT WARRANTY &
PERFORMANCE WARRANTY

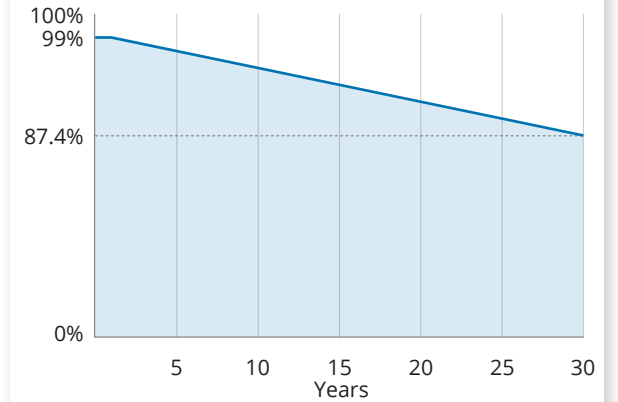
SUSTAINABILITY STARTS WITH RESPONSIBILITY!

Learn about our commitment to ethical
practices and workforce well-being,
backed by top industry certifications.



SCAN ME

PERLIGHT'S LINEAR PERFORMANCE WARRANTY



- ✓ HIGH POWER OUTPUT
- ✓ OUTSTANDING LOW LIGHT PERFORMANCE
- ✓ LOW LID (LIGHT INDUCED DEGRADATION)
- ✓ BETTER TEMPERATURE COEFFICIENT
- ✓ PID RESISTANCE
- ✓ ENHANCED MECHANICAL LOAD
- ✓ WITHSTANDING HARSH ENVIRONMENT



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UK Version 2025 v1.1

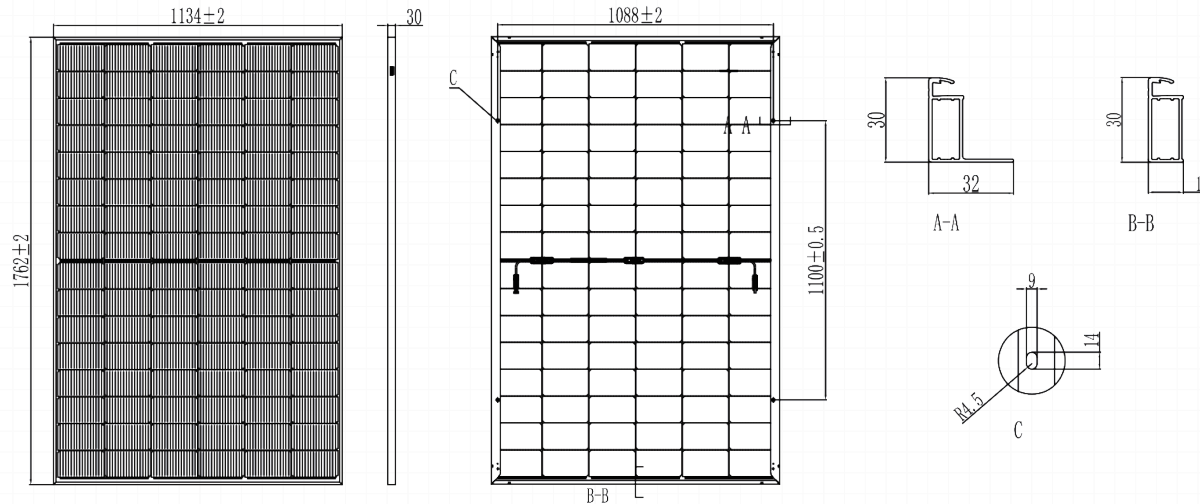


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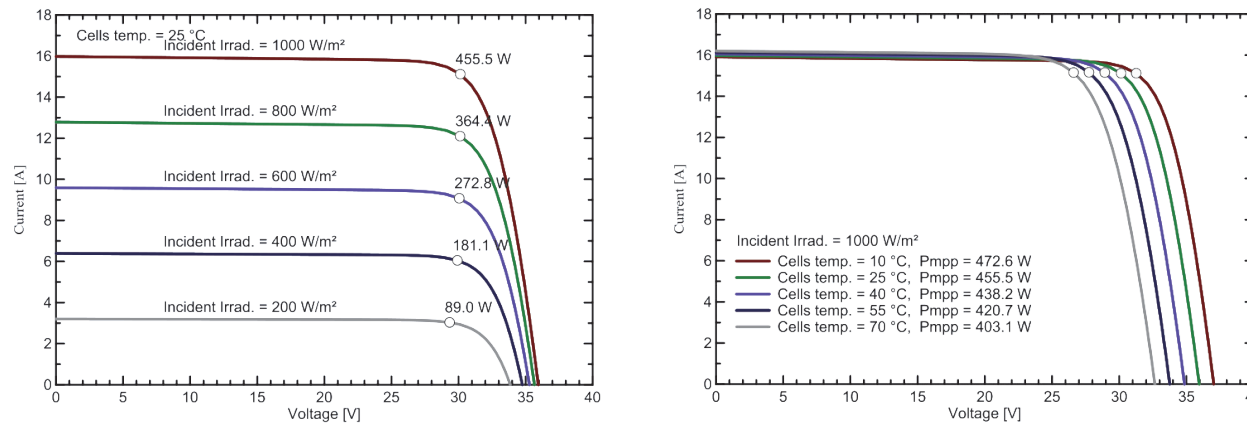
NTA DOUBLE GLASS 455W

PLM-455DH8NHB-96 SERIES

DRAWINGS



I-V CURVE



CLAMPING ZONES

Long Side	390 ~ 490mm
Short Side	100 ~ 240mm

PACKAGING CONFIGURATION

Packaging Type	40'HQ
Piece / Pallet	36
Piece / Container	936

ELECTRICAL CHARACTERISTICS

	STC*	BSTC*	NOCT*
Maximum Power - Pm (W)	455	502.3	342
Maximum Power Voltage - Vmp (V)	30.44	30.44	28.18
Maximum Power Current - Imp (A)	14.95	16.50	12.14
Open Circuit Voltage - Voc (V)	35.95	35.95	33.45
Short Circuit Current - Isc (A)	15.98	17.64	13.00
Module Efficiency (%)	22.8%		

MECHANICAL PARAMETERS

Cells	N-Type Monocrystalline Cell
Number of Cells	96 (6 x 16)
Module Dimension	1762×1134×30mm (L×W×H)
Weight*	20.9Kg / 23.7Kg (*depending on glass configuration)
Front Glass	1.6mm / 2.0mm High Transmission, AR Tempered
Rear Glass	1.6mm / 2.0mm Semi-Tempered
Frame	Anodized Aluminium Alloy
Junction Box	IP 68 (3 Diodes)
Cable	TUV 1×4.0 mm², (+):1200mm/(-):1200mm or Customized Length
Connector	Stäubli MC4 EVO 2A

MAXIMUM RATINGS

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	±3%
Max Surface Load Capacity [Pa]	Front 5400 / Back 2400
Hail Resistance	Maximum diameter of 25mm with impact speed of 23m/s

TEMPERATURE PARAMETERS

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



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*STC: Irradiance 1000W/m², Cell Temperature 25°C, AM 1.5. NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.
BSTC: Front Side Irradiation 1000W/m², Back Side Reflection Irradiation 135W/m², AM=1.5, Ambient Temperature 25°C.