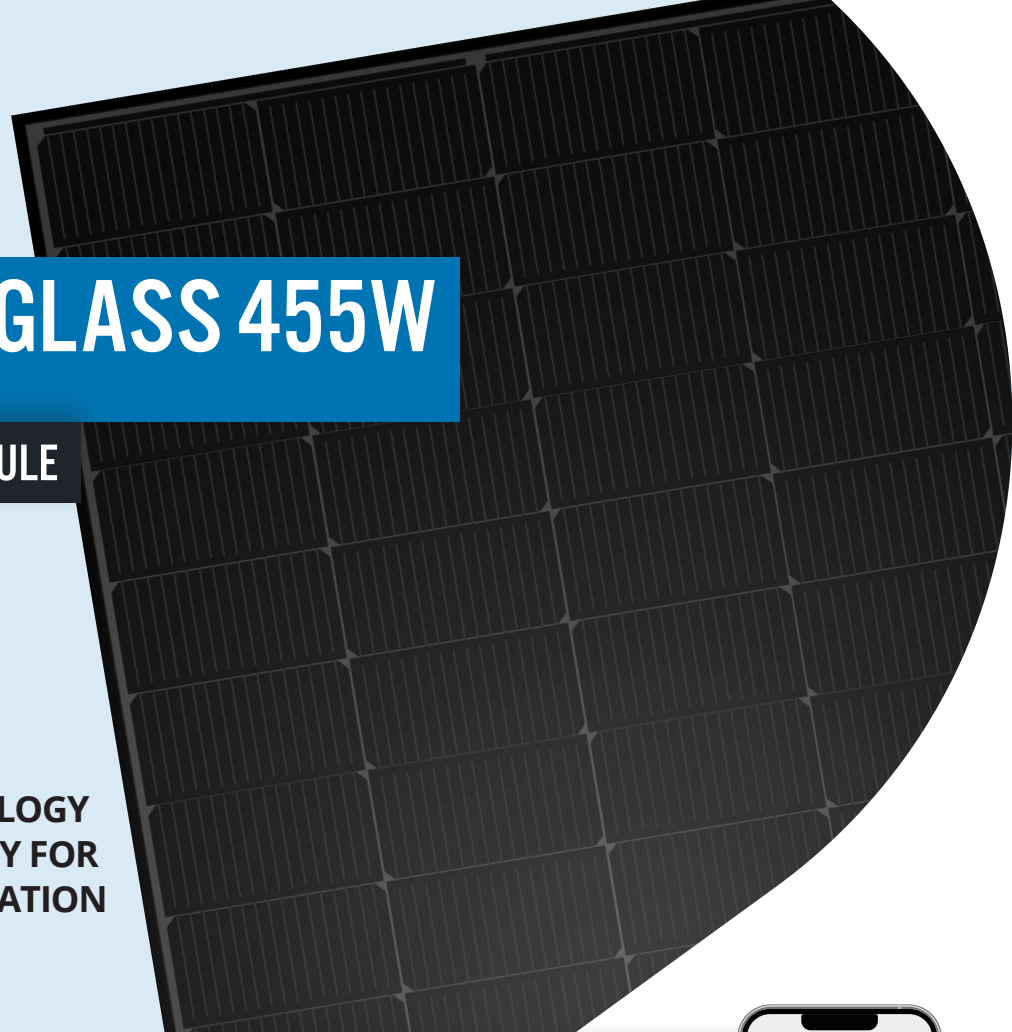




PERLIGHT SOLAR
Powering Possibilities



NTA DOUBLE GLASS 455W

PLM-455DH8NHB-96 SERIES

N-TYPE MONO BLACK MODULE



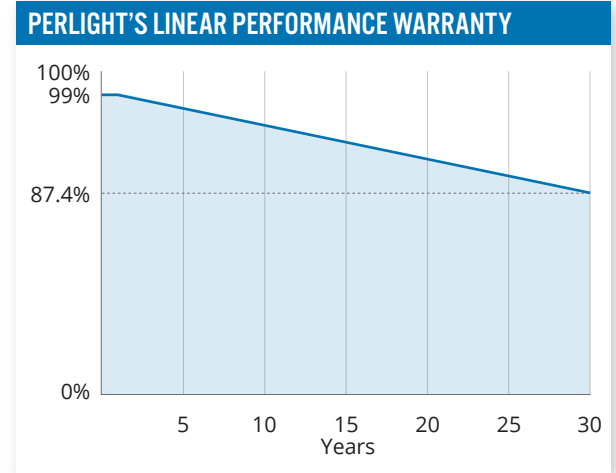
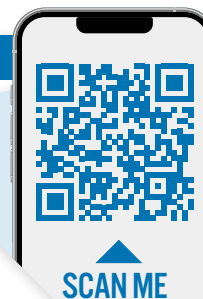
ADVANCED CELL TECHNOLOGY DELIVERS 22.8% EFFICIENCY FOR MAXIMUM ENERGY GENERATION



30 YEARS LIMITED PRODUCT WARRANTY & PERFORMANCE WARRANTY

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



- 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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Sales & Customer Centre

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@ sales@westech-solar.co.uk
westech-solar.co.uk

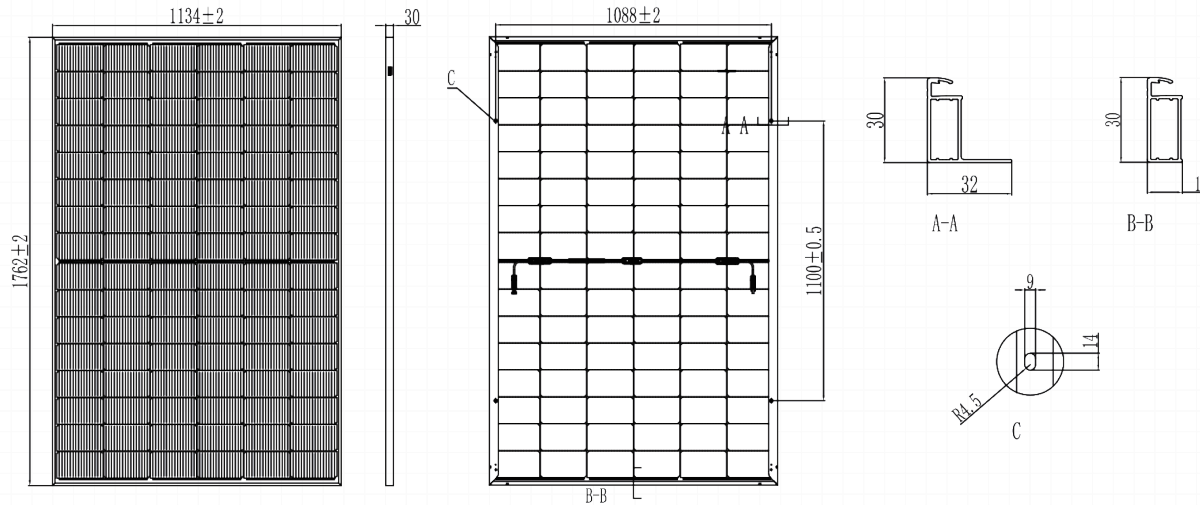
Unit 1 Bobby Fryer Close
Garsington Road
Oxford, OX4 6ZN



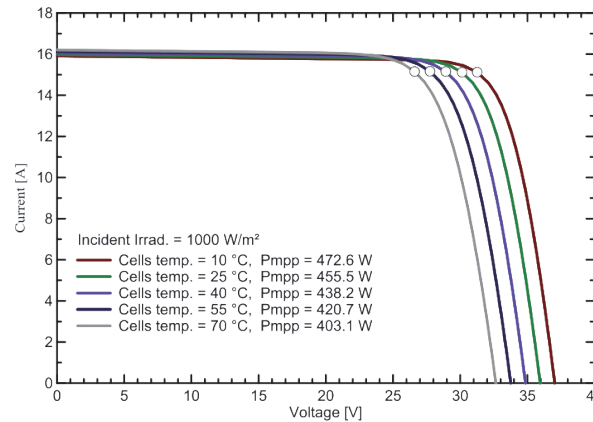
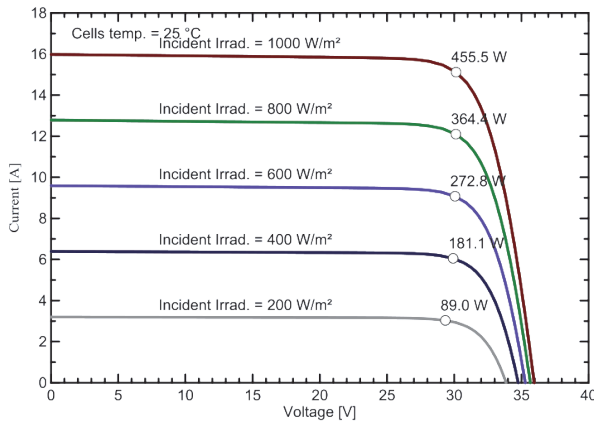
UK Version 2025 v1



DRAWINGS



I-V CURVE



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
Front Glass	1.6mm High Transmission Glass, AR Tempered Glass
Rear Glass	1.6mm Semi-tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 68 (3 Diodes)
Cable	TUV 1×4.0 mm ² , (+):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