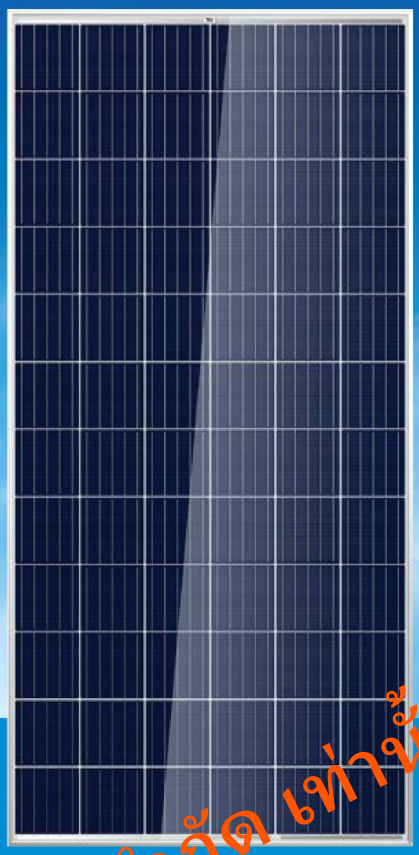
IRRADIANCE SOLAR

LeKise GROUP

THE IRRADIANCE MODULE



72 CELL
MULTICRYSTALLINE MODULE

305–320W
POWER OUTPUT RANGE

16.5%
MAXIMUM EFFICIENCY

0~+5W
POSITIVE POWER TOLERANCE

TIS1843-2553 TIS 2580

Ideal for large scale installations
- High power footprint reduces installation time and BOS costs
- 1000V UL/1000V IEC certified

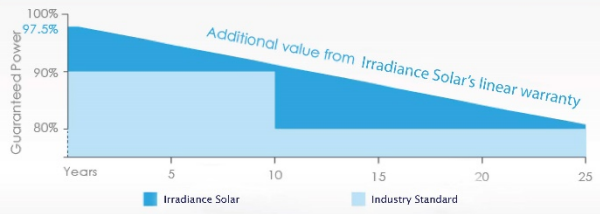
One of the industry's most trusted modules
- Field proven performance
- Strong, reliable supplier

Certified to withstand challenging environmental conditions
- 2400 Pa wind load
- 5400 Pa snow load
- 35 mm hail stones at 97 km/h
- PID resistant

Irradiance Solar company was founded in 2014 by a subsidiary Lekise Group, a manufacturer of light bulbs and solar business Thailand's leading. Irradiance Solar companies do business is manufacturing and design, installation, solar street light Solar Farm, Solar Roof Top.

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty · 25 Year Linear Power Warranty



www.irradiance.co.th

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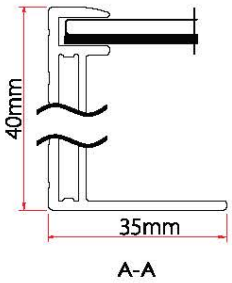
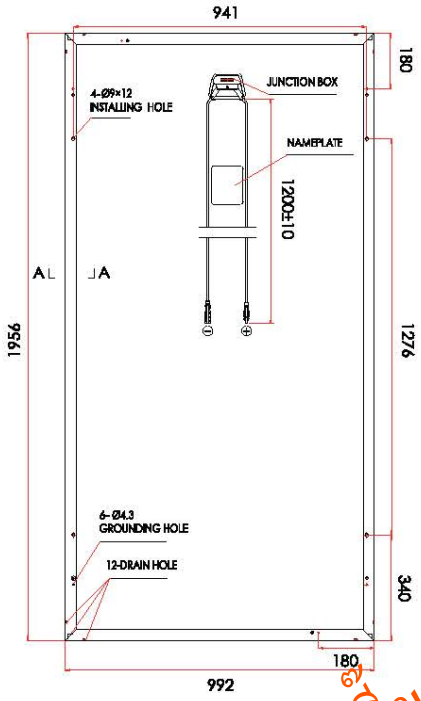
THE IRRADIANCE MODULE

IRR-PL17





ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	310	315	320	325
Power Output Tolerance-PMAX (W)	0~+5			
Maximum Power Voltage-VMPP (V)	37.0	37.1	37.1	37.2
Maximum Power Current-IMPP (A)	8.38	8.51	8.63	8.76
Open Circuit Voltage-VOC (V)	45.5	45.6	45.8	45.9
Short Circuit Current-ISC (A)	8.85	9.00	9.10	9.25
Module Efficiency ηm (%)	16.0	16.2	16.5	16.8

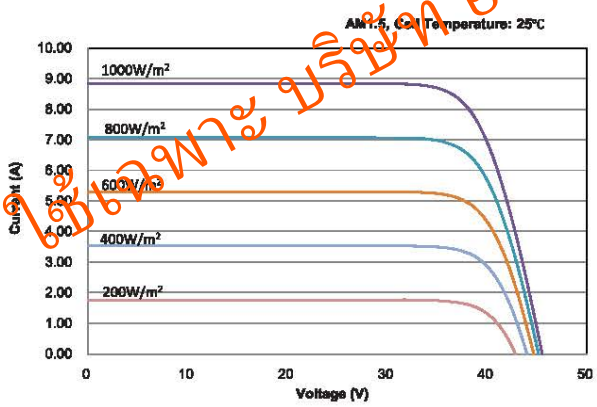
STC: Irradiance 1000 W/m^2, Cell Temperature 25°C, Air Mass AM1.5.
*Test tolerance: ±3%.

ELECTRICAL DATA (NOCT)

Maximum Power-PMAX (Wp)	230	234	238	242
Maximum Power Voltage-VMPP (V)	34.3	34.3	34.4	34.5
Maximum Power Current-IMPP (A)	6.72	6.83	6.91	7.02
Open Circuit Voltage-VOC (V)	42.2	42.3	42.5	42.6
Short Circuit Current-ISC (A)	7.15	7.27	7.35	7.47

NOCT: Irradiance at 800 W/m^2, Ambient Temperature 20°C, Wind Speed 1 m/s.

I-V CURVES OF PV MODULE IRR-310PL17



MECHANICAL DATA

Solar Cells	Multicrystalline 156 × 156 mm (6 inches)
Cell Orientation	72 cells (6 × 12)
Module Dimensions	1956 × 992 × 40 mm (77.0 × 39.1 × 1.57 inches)
Weight	22.5 kg (49.6 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Backsheet	White
Frame	Silver Anodized Aluminium Alloy
J-Box	IP 67 or IP 68 ratedv (bypass bionde)
Cables	Photovoltaic Technology Cable 4.0 mm^2 (0.006 inches^2), 1200 mm (47.2 inches)
Connector	MC4 Compatible or Amphenol H4/UTX
Fire Type	Type 1 or Type 2

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C (±2°C)
Temperature Coefficient of PMAX	- 0.41%/°C
Temperature Coefficient of VOC	- 0.32%/°C
Temperature Coefficient of ISC	0.05%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1000V DC (IEC) 1000V DC (UL)
Max Series Fuse Rating	15A

WARRANTY

10 year Product Workmanship Warranty

25 year Linear Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 26 pieces

Modules per 40' container: 572 pieces

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IRRADIANCE SOLAR

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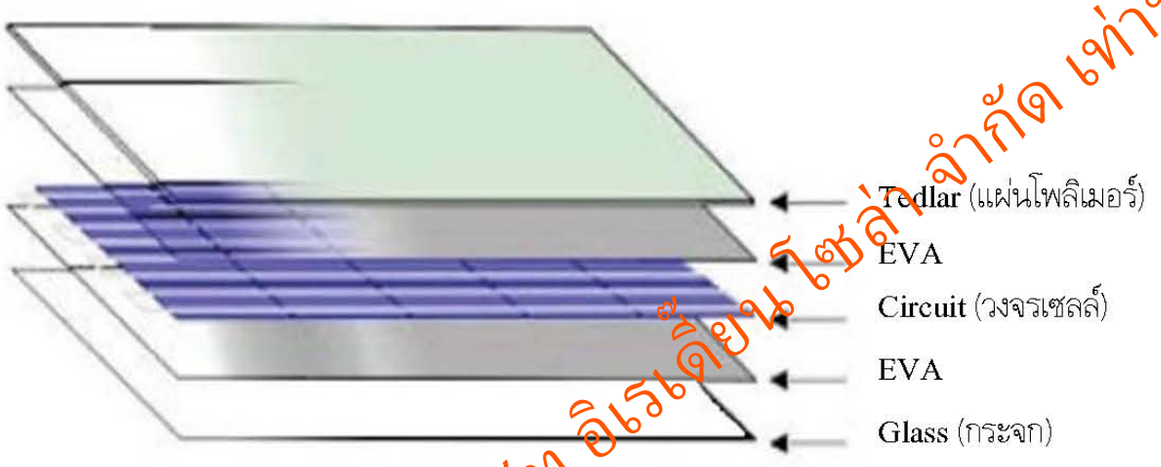
Tel. 034-446-706 Fax. 034-446-707

การประกอบเชื่อมต่อแผงเซลล์แสงอาทิตย์



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