

Flex9

450 Wp - 500 Wp

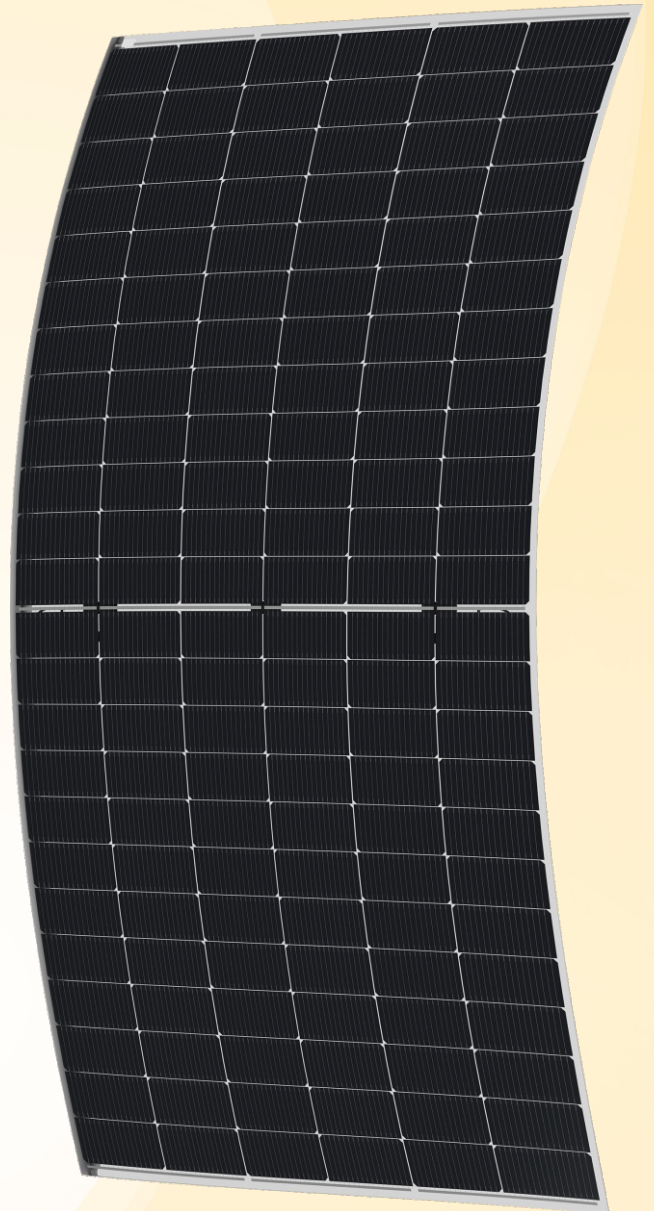
Flexible Module



Product Warranty
on Materials and
Workmanship **05 Years***



Linear Performance
Warranty for **30 Years***



PRODUCT | KEY FEATURES



**ULTRA
LIGHTWEIGHT**

Easy to carry
& install



**HIGHLY
FLEXIBLE**

Perfect for
Curved surfaces



**HIGH
EFFICIENCY**

Maximum
power output



**DURABLE &
RELIABLE**

Built to withstand
harsh environments



**IP68
WATERPROOF**

Weatherproof
& dustproof

BIS APPROVED



R-72011754



Management
Certificates

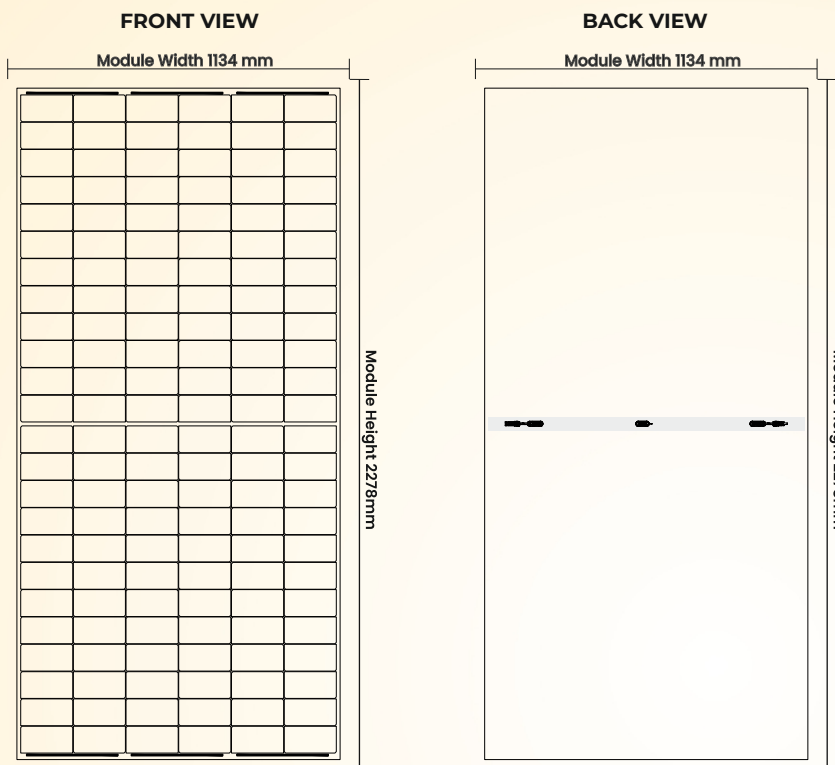
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

Product
Certificates

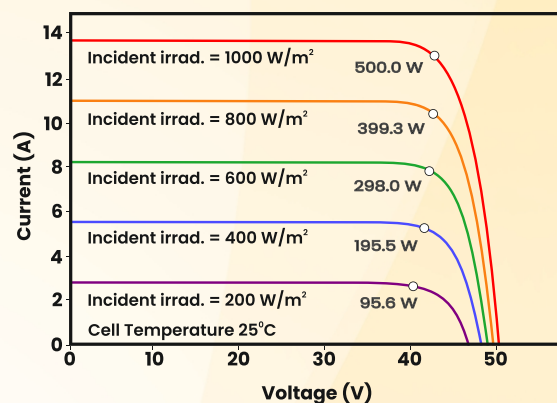
IS 14286/IEC 61215
IS/IEC 61730/1
IS/IEC 61730/2

TECHNICAL DATA

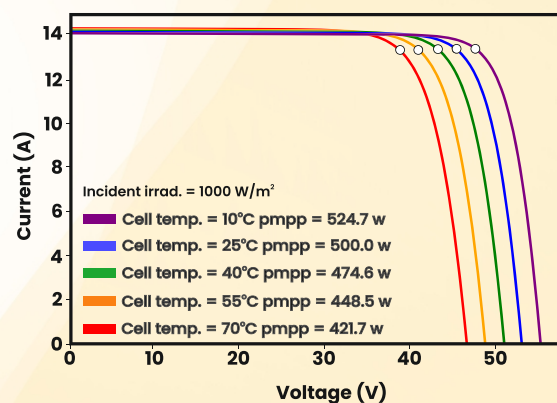
| ELECTRICAL CHARACTERISTICS* | ASPLB144-450 | | ASPLB144-460 | | ASPLB144-470 | | ASPLB144-480 | | ASPLB144-490 | | ASPLB144-500 | |
|---------------------------------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Nominal Maximum Power (Pmax) | 450 W | 338 W | 460 W | 345 W | 470 W | 353 W | 480 W | 360 W | 490 W | 368 W | 500 W | 375 W |
| Optimum Operating Voltage (Vmp) | 41.20V | 39.10V | 41.45V | 39.35V | 41.70V | 39.58V | 41.95V | 39.82V | 42.18V | 40.08V | 42.40V | 40.20V |
| Optimum Operating Current (Imp) | 10.93A | 8.64A | 11.10A | 8.77A | 11.27A | 8.92A | 11.44A | 9.04A | 11.61A | 9.18A | 11.79A | 9.33A |
| Open Circuit Voltage (Voc) | 49.20V | 46.00V | 49.45V | 46.28V | 49.72V | 46.55V | 49.95V | 46.08V | 50.20V | 47.08V | 50.40V | 47.20V |
| Short Circuit Current (Isc) | 11.48A | 9.12A | 11.65A | 9.25A | 11.83A | 9.38A | 12.02A | 9.52A | 12.20A | 9.68A | 12.38A | 9.82A |
| Module Efficiency | 20.80% | | 21.20% | | 21.60% | | 22.00% | | 22.40% | | 22.80% | |



IV Curve Variation with Irradiance

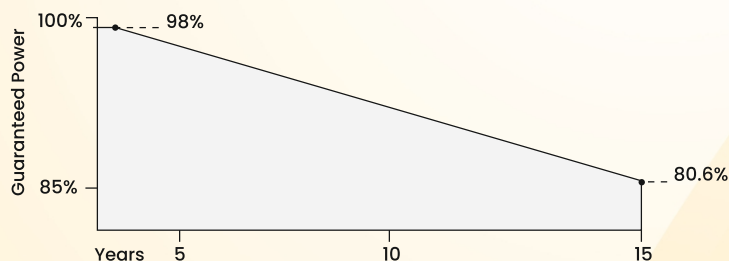


IV Curve Variation with Temperature



IV Curves for Front-side Illumination of 500 Wp Panel

LINEAR PERFORMANCE WARRANTY



MECHANICAL SPECIFICATIONS

| | | | |
|-------------------------------|---|---------|------------------|
| Panel Dimensions | 2278 (L) × 1134 (W) | | |
| Type | Basic | Enhance | High Performance |
| Thickness | 2.7 mm | 3.0 mm | 3.2 mm |
| Weight | 6.5 Kg | 8.3 Kg | 9.0 Kg |
| Cell Size | 182 × 91 mm | | |
| Cell Number | 144 | 132 | |
| Junction Box Diodes | 3 nos. with individual bypass diode | | |
| Junction Box Protection Class | IP68 - Weatherproof | | |
| Connector Type | MC 4 or MC 4 Compatible | | |
| Cable | 1 × 4 mm ² , (+): 300 mm, (-): 300 mm or Customized Length | | |

MAXIMUM OPERATING CONDITIONS

| | |
|------------------------------|----------------|
| Operating Temperature : | -40°C to +85°C |
| Front/Rear side Load | 2400/2400pa |
| Maximum System Voltage : | 1500V |
| Maximum Series Fuse Rating : | 25 A |

TEMPERATURE COEFFICIENTS

| | |
|-------------------|-------------|
| Current α (Isc) : | 0.0284%/°C |
| Voltage β (Voc) : | -0.2444%/°C |
| Power γ (Pmax) : | -0.3210%/°C |
| NMOT : | 45°C(+2°C) |

STACKING STANDARD

| | |
|--------------------------------|-------------|
| No. of Modules per Container : | 68 Pieces |
| No. of Pallets per Container : | 1632 pieces |

Caution : Please read safety and installation instructions before using the product. **Warranty** : Linear performance warranty for 15 years, with degradation up to 2% in 1st year and 0.6 %/year from year 2 to year 15. Please read ASOT SOLAR warranty documents thoroughly. **Disclaimer** : Specifications included in the datasheet are subject to change without prior notice owing to continuous innovation in the Product Development and R&D Activities. ASOTE SOLUTIONS PVT. LTD. reserves the right to make any adjustment to the information described here. Dataset contained in this specification do not form a representative of a single module data. ©T&C Apply.