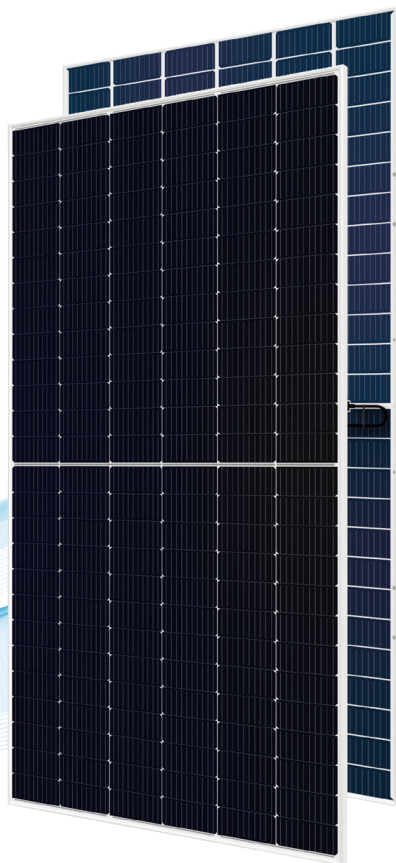


HD HYUNDAI SOLAR MODULE

OJ Series

DualMax Pro

HiS-S5800J | HiS-S5850J | HiS-S5900J | HiS-S5950J | HiS-S6000J



Hail Resistance
3.2mm Glass



More Power
Generation
In Low Light



UL 1,500V
IEC 1,500V
Saves Bos Costs



High Reliability
in all-weather



For Commercial
& Utility
Applications

HD Hyundai's Warranty Provisions

12
YEARS

- 12-Year Product Warranty
- Materials and workmanship

25
YEARS

- 25-Year Performance Warranty
- Initial year : 98.0%
- Linear warranty after initial year:
with 0.54%p annual degradation,
85.0% is guaranteed up to 25years

Certification



- UL61730 certified by UL
- IEC 61215: 2016 Hailstone 50mm by kiwa PVEL
 - ISO 9001: 2015 Quality management systems
 - ISO 14001: 2015 Environmental management systems
 - ISO 45001: 2018 Occupational health and safety management systems

Electrical Characteristics

| HiS-SxxxOJ | | | | | | |
|---|------|--------|-------|-------|-------|-------|
| Item | Unit | 580 | 585 | 590 | 595 | 600 |
| Nominal Output (P _{mpp}) | W | 580 | 585 | 590 | 595 | 600 |
| Open Circuit Voltage (V _{oc}) | V | 53.54 | 53.70 | 53.85 | 54.00 | 54.18 |
| Short Circuit Current (I _{sc}) | A | 13.45 | 13.51 | 13.57 | 13.64 | 13.71 |
| Voltage at P _{max} (V _{mpp}) | V | 45.67 | 45.83 | 45.99 | 46.10 | 46.20 |
| Current at P _{max} (I _{mpp}) | A | 12.70 | 12.76 | 12.83 | 12.89 | 12.95 |
| Module Efficiency | % | 21.0 | 21.2 | 21.4 | 21.5 | 21.7 |
| Temperature Coefficient of P _{max} | %/K | -0.347 | | | | |
| Temperature Coefficient of V _{oc} | %/K | -0.268 | | | | |
| Temperature Coefficient of I _{sc} | %/K | 0.032 | | | | |

*All data at STC / Measurement tolerances P_{mpp} ±3%; I_{sc}; V_{oc} ±3%. Above data may be changed without prior notice

| Additional Power Gain from rear side | | | | | |
|--------------------------------------|----------------------|----------------------|----------------------|---------------------|---------------------|
| P _{mpp} gain | P _{mpp} [W] | V _{mpp} [V] | I _{mpp} [A] | V _{oc} [V] | I _{sc} [A] |
| 5% | 625 | 46.10 | 13.53 | 54.00 | 14.32 |
| 10% | 655 | 46.10 | 14.18 | 54.00 | 15.00 |
| 15% | 684 | 46.10 | 14.82 | 54.00 | 15.69 |
| 20% | 714 | 46.10 | 15.47 | 54.00 | 16.37 |
| 25% | 744 | 46.10 | 16.11 | 54.00 | 17.05 |

*Electrical characteristics with different rear power gain (reference to 595W)

Mechanical Characteristics

| | |
|---------------|---|
| Dimensions | 2,438 mm (L) x 1,133 mm (W) x 35 mm (H) |
| Weight | 30.0 kg |
| Solar Cells | Mono PERC, 156 (6x26) monocrystalline half-cut bifacial cells |
| Output Cables | Cable : Cable : 4mm ² / 12AWG / (+)350mm, (-)250mm / Customized length available Connector: Stäubli MC4 genuine Connector / Compatible, IP68 |
| Junction Box | 3-part, 3 bypass diodes, IP68 rated |
| Construction | Front : 3.2mm full-tempered solar glass with high transmittance, hail resistant and antireflective coating Rear : Highly resistant and weatherproof film (Transparent) |
| Frame | Anodized aluminum alloy |

Installation Safety Guide

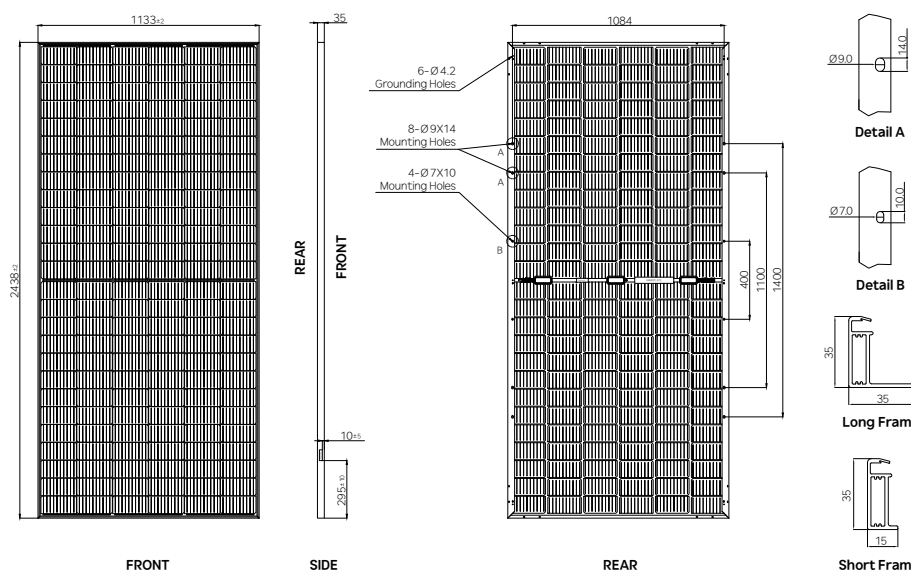
- Only qualified personnel should install or perform maintenance.
- Be aware of dangerous high DC voltage.
- Do not damage or scratch the rear surface of the module.
- Do not handle or install modules when they are wet.

| | |
|--------------------------------------|-------------------------------|
| Nominal Module Operation Temperature | 45.5°C ± 2°C |
| Operating Temperature | -40°C~+85°C |
| Maximum System Voltage | DC 1,500 V |
| Maximum Reverse Current | 30A |
| Maximum Test Load | Front 5,400Pa Rear 3,000Pa |
| Fire Performance | Type 1 |

Shipping Configurations

| | | | |
|-----------------------|-----|-----------------------------|-----|
| Container Size (HC) | 40' | Modules Per Pallet (pcs) | 29 |
| Pallets Per Container | 16 | Modules Per Container (pcs) | 464 |

Module Diagram (unit : mm)



I-V Curves (HiS-S595OJ)

