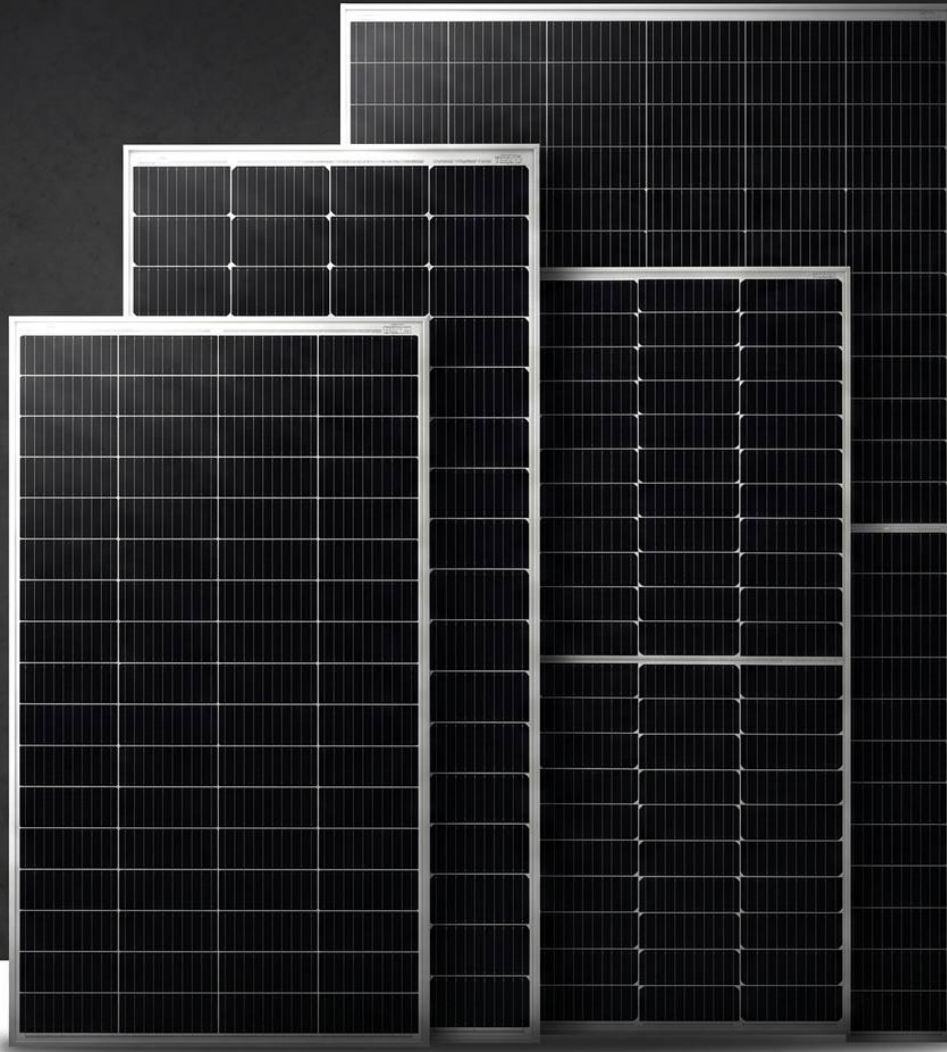




N-TYPE TOPCON MODULE SERIES

InnovaMAX

High-efficiency modules engineered for consistent output and a long, dependable service life.

200–630 Wp

POWER RANGE

24 V Class

SYSTEM VOLTAGE

10 / 25 Years*

PRODUCT & PERFORMANCE
WARRANTY

*Warranty terms and conditions apply. Refer [innovativesolarsolutions.in/terms-and-conditions.html](https://www.innovativesolarsolutions.in/terms-and-conditions.html)

N-TYPE TOPCON MODULE

200 Wp

INV-T16-24V-200Wp

64 CELLS · 21.56% EFFICIENCY


ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (P _{max})	200 Wp
Open Circuit Voltage (V _{oc})	45.82 V
Voltage at P _{max} (V _{mp})	40.19 V
Short Circuit Current (I _{sc})	5.26 A
Current at P _{max} (I _{mp})	5.02 A
Module Efficiency	21.56 %
Maximum System Voltage	1000 V DC
Cells per Module	64

STC: irradiance 1000 W/m², spectrum AM 1.5, cell temperature 25 °C.

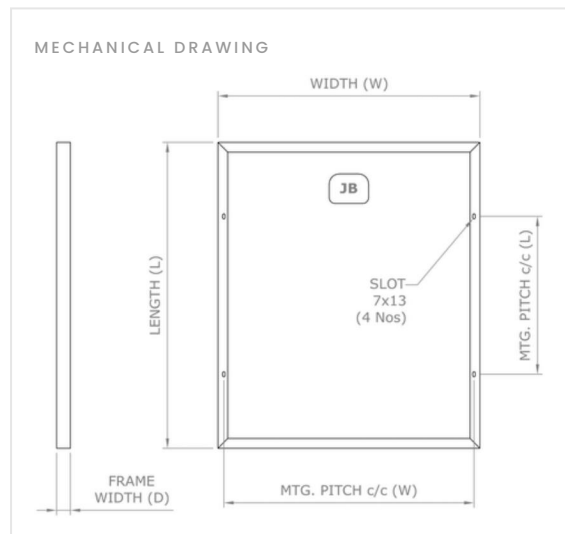
TEMPERATURE COEFFICIENTS

Open Circuit Voltage (V _{oc})	-0.26 %/°C
Short Circuit Current (I _{sc})	-0.046 %/°C
Maximum Power (P _{max})	-0.30 %/°C

MECHANICAL DATA

Dimensions (L × W × D)	1205 × 770 × 30 mm
Mounting Pitch c/c (L)	600 mm
Mounting Pitch c/c (W)	735 mm
Mounting Slots	7 × 13 mm, 4 Nos

Weight


MATERIALS & COMPONENTS

Front Cover	Tempered low-iron glass, 3.2 mm	Junction Box	IP67
Encapsulant	Ethylene Vinyl Acetate	Bypass Diodes	2
Frame	Anodised aluminium alloy	Connectors	MC4
		Cable Length	0.5 m

WARRANTY

10-year product*
25-year performance*

*Terms and conditions apply. For full warranty terms refer innovativesolarsolutions.in/terms-and-conditions.html

N-TYPE TOPCON MODULE

270 Wp

INV-T16-24V-270Wp

64 CELLS · 22.28% EFFICIENCY


ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (P _{max})	270 Wp
Open Circuit Voltage (V _{oc})	45.82 V
Voltage at P _{max} (V _{mp})	40.19 V
Short Circuit Current (I _{sc})	7.05 A
Current at P _{max} (I _{mp})	6.73 A
Module Efficiency	22.28 %
Maximum System Voltage	1000 V DC
Cells per Module	64

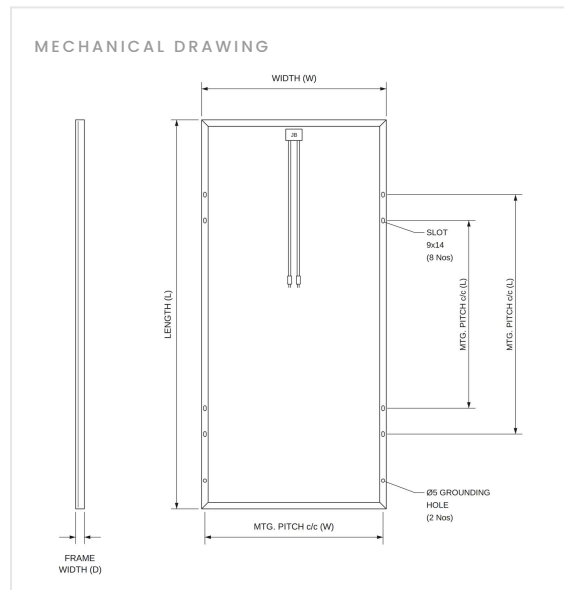
STC: irradiance 1000 W/m², spectrum AM 1.5, cell temperature 25 °C.

TEMPERATURE COEFFICIENTS

Open Circuit Voltage (V _{oc})	-0.26 %/°C
Short Circuit Current (I _{sc})	-0.046 %/°C
Maximum Power (P _{max})	-0.30 %/°C

MECHANICAL DATA

Dimensions (L × W × D)	1574 × 770 × 35 mm
Mounting Pitch c/c (L)	1250 / 950 mm
Mounting Pitch c/c (W)	735 mm
Mounting Slots	9 × 14 mm, 8 Nos
Grounding Hole	Ø5 mm, 2 Nos
Weight	


MATERIALS & COMPONENTS

Front Cover	Tempered low-iron glass, 3.2 mm	Junction Box	IP67
Encapsulant	Ethylene Vinyl Acetate	Bypass Diodes	2
Frame	Anodised aluminium alloy	Connectors	MC4
		Cable Length	0.5 m

WARRANTY

10-year product*
25-year performance*

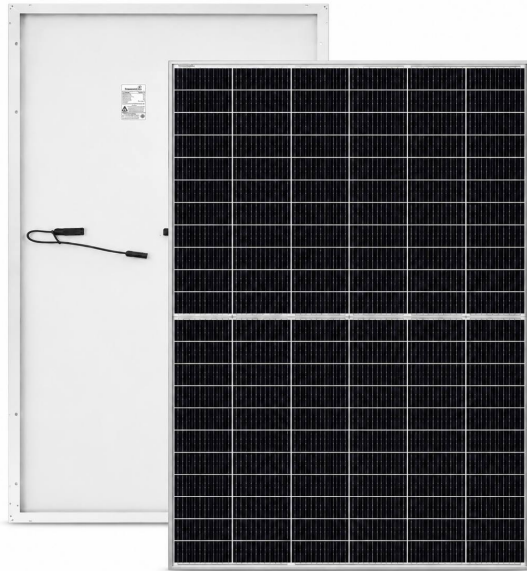
*Terms and conditions apply. For full warranty terms refer innovativesolarsolutions.in/terms-and-conditions.html

N-TYPE TOPCON MODULE

335 Wp

INV-T16-24V-335Wp

136 CELLS · 22.03% EFFICIENCY


ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (P _{max})	335 Wp
Open Circuit Voltage (V _{oc})	48.69 V
Voltage at P _{max} (V _{mp})	42.70 V
Short Circuit Current (I _{sc})	8.25 A
Current at P _{max} (I _{mp})	7.87 A
Module Efficiency	22.03 %
Maximum System Voltage	1500 V DC
Cells per Module	136

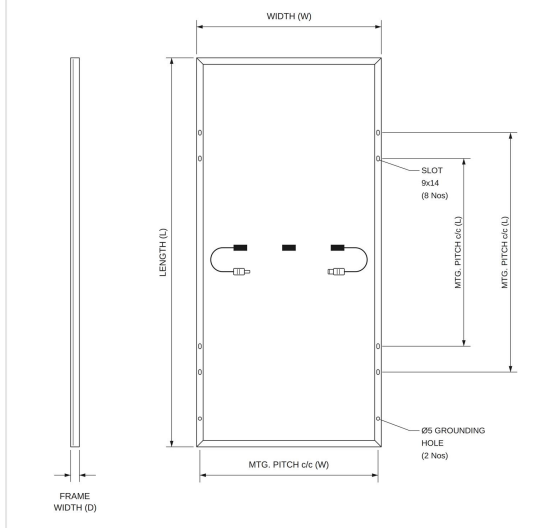
STC: irradiance 1000 W/m², spectrum AM 1.5, cell temperature 25 °C.

TEMPERATURE COEFFICIENTS

Open Circuit Voltage (V _{oc})	-0.26 %/°C
Short Circuit Current (I _{sc})	-0.046 %/°C
Maximum Power (P _{max})	-0.30 %/°C

MECHANICAL DATA

Dimensions (L × W × D)	1975 × 770 × 35 mm
Mounting Pitch c/c (L)	1250 / 950 mm
Mounting Pitch c/c (W)	735 mm
Mounting Slots	9 × 14 mm, 8 Nos
Grounding Hole	Ø5 mm, 2 Nos
Weight	

MECHANICAL DRAWING

MATERIALS & COMPONENTS

Front Cover	Tempered low-iron glass, 3.2 mm	Junction Box	IP68 / weatherproof PPO
Encapsulant	Ethylene Vinyl Acetate	Bypass Diodes	3
Frame	Anodised aluminium alloy	Connectors	MC4
		Cable Length	0.5 m

WARRANTY

10-year product*
25-year performance*

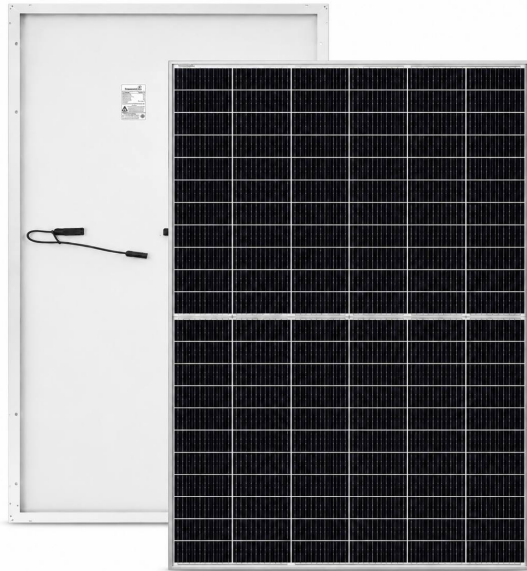
*Terms and conditions apply. For full warranty terms refer innovativesolarsolutions.in/terms-and-conditions.html

N-TYPE TOPCON MODULE

400 Wp

INV-T16-24V-400Wp

144 CELLS · 22.20% EFFICIENCY


ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (P _{max})	400 Wp
Open Circuit Voltage (V _{oc})	103.10 V
Voltage at P _{max} (V _{mp})	90.43 V
Short Circuit Current (I _{sc})	4.65 A
Current at P _{max} (I _{mp})	4.44 A
Module Efficiency	22.20 %
Maximum System Voltage	1500 V DC
Cells per Module	144

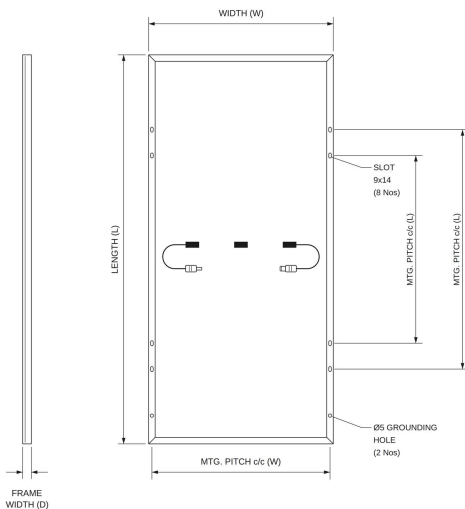
STC: irradiance 1000 W/m², spectrum AM 1.5, cell temperature 25 °C.

TEMPERATURE COEFFICIENTS

Open Circuit Voltage (V _{oc})	-0.26 %/°C
Short Circuit Current (I _{sc})	-0.046 %/°C
Maximum Power (P _{max})	-0.30 %/°C

MECHANICAL DATA

Dimensions (L × W × D)	1590 × 1133 × 35 mm
Mounting Pitch c/c (L)	1000 / 750 mm
Mounting Pitch c/c (W)	1098 mm
Mounting Slots	9 × 14 mm, 8 Nos
Grounding Hole	Ø5 mm, 2 Nos
Weight	

MECHANICAL DRAWING

MATERIALS & COMPONENTS

Front Cover	Tempered low-iron glass, 3.2 mm	Junction Box	IP68 / weatherproof PPO
Encapsulant	Ethylene Vinyl Acetate	Bypass Diodes	3
Frame	Anodised aluminium alloy	Connectors	MC4
		Cable Length	0.5 m

WARRANTY

10-year product*
25-year performance*

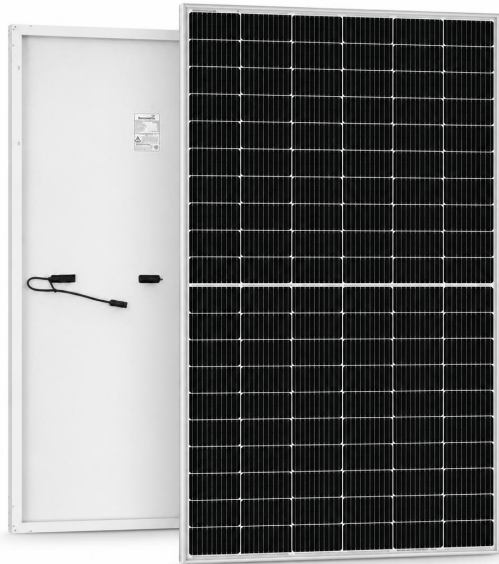
*Terms and conditions apply. For full warranty terms refer innovativesolarsolutions.in/terms-and-conditions.html

N-TYPE TOPCON MODULE

500 Wp

INV-T16-24V-500Wp

144 CELLS · 22.46% EFFICIENCY


ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (P _{max})	500 Wp
Open Circuit Voltage (V _{oc})	103.10 V
Voltage at P _{max} (V _{mp})	90.43 V
Short Circuit Current (I _{sc})	5.81 A
Current at P _{max} (I _{mp})	5.54 A
Module Efficiency	22.46 %
Maximum System Voltage	1500 V DC
Cells per Module	144

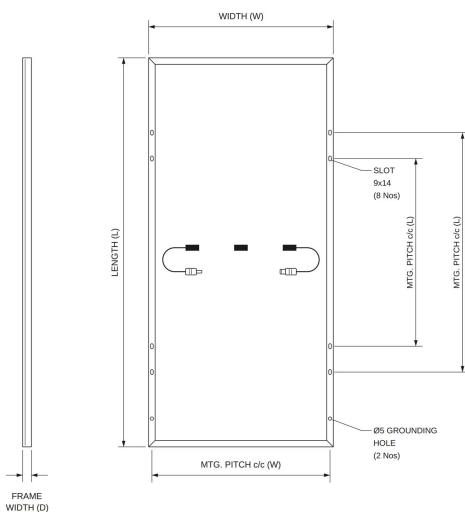
STC: irradiance 1000 W/m², spectrum AM 1.5, cell temperature 25 °C.

TEMPERATURE COEFFICIENTS

Open Circuit Voltage (V _{oc})	-0.26 %/°C
Short Circuit Current (I _{sc})	-0.046 %/°C
Maximum Power (P _{max})	-0.30 %/°C

MECHANICAL DATA

Dimensions (L × W × D)	1965 × 1133 × 35 mm
Mounting Pitch c/c (L)	1000 / 750 mm
Mounting Pitch c/c (W)	1098 mm
Mounting Slots	9 × 14 mm, 8 Nos
Grounding Hole	Ø5 mm, 2 Nos
Weight	

MECHANICAL DRAWING

MATERIALS & COMPONENTS

Front Cover	Tempered low-iron glass, 3.2 mm
Encapsulant	Ethylene Vinyl Acetate
Frame	Anodised aluminium alloy

Junction Box	IP68 / weatherproof PPO
Bypass Diodes	3
Connectors	MC4
Cable Length	0.5 m

WARRANTY

10-year product*
25-year performance*

*Terms and conditions apply. For full warranty terms refer innovativesolarsolutions.in/terms-and-conditions.html

N-TYPE TOPCON BIFACIAL MODULE

600–630 Wp

INV-T16-24V-600Wp ... 630Wp

132 HALF-CUT CELLS · UP TO 23.34% EFFICIENCY

ELECTRICAL CHARACTERISTICS AT STC – FRONT SIDE

PARAMETER	600 WP	605 WP	610 WP	615 WP	620 WP	625 WP	630 WP
Maximum Power, P _{max} (Wp)	600	605	610	615	620	625	630
Voltage at P _{max} , V _{mp} (V)	40.20	40.50	40.80	41.10	41.40	41.70	42.00
Current at P _{max} , I _{mp} (A)	14.92	14.94	14.96	14.98	14.99	15.01	15.03
Open Circuit Voltage, V _{oc} (V)	48.40	48.70	49.00	49.30	49.60	49.90	50.20
Short Circuit Current, I _{sc} (A)	15.80	15.83	15.86	15.89	15.91	15.94	15.97
Module Efficiency (%)	22.23	22.42	22.60	22.79	22.97	23.16	23.34

STC: irradiance 1000 W/m², spectrum AM 1.5, cell temperature 25 °C. Power tolerance 0 ~ +5 W. All parameters other than P_{max} carry a tolerance of ±3%.

0 ~ +5 W

POWER TOLERANCE

80 ± 5 %

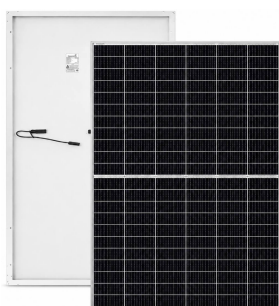
BIFACIALITY FACTOR

1500 V

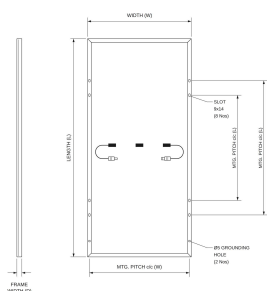
MAX SYSTEM VOLTAGE
(DC)

33.6 kg

MODULE WEIGHT



MECHANICAL DRAWING



TEMPERATURE COEFFICIENTS & OPERATING LIMITS

Open Circuit Voltage (β)	-0.23 %/°C
Short Circuit Current (α)	+0.061 %/°C
Maximum Power (γ)	-0.28 %/°C
NOCT	45 ± 2 °C
Operating Temperature Range	-40 °C to +85 °C
Maximum Series Fuse Rating	35 A

MECHANICAL DATA

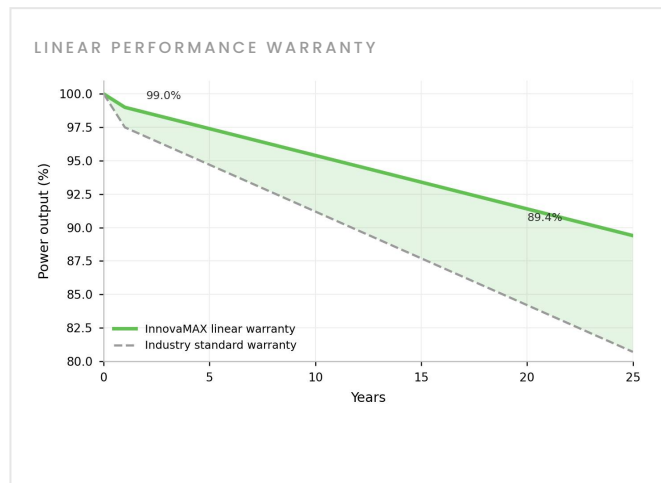
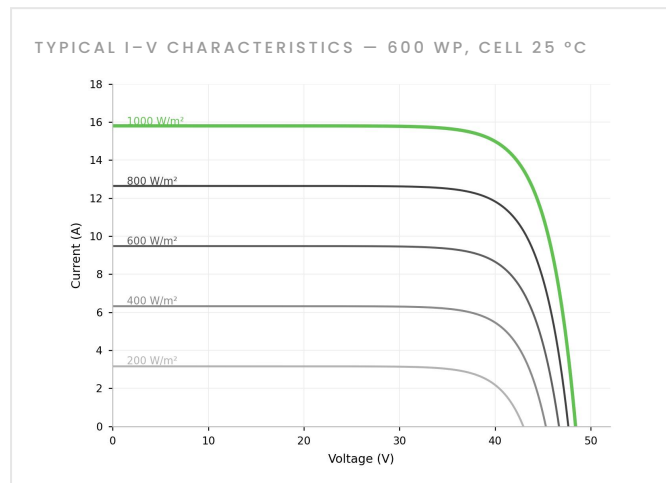
Dimensions (L × W × D)	2382 × 1133 × 30 mm
Mounting Pitch c/c (L)	1400 / 790 / 400 mm
Mounting Pitch c/c (W)	1092 mm
Installing Holes	8 × (10 × 7 mm), 4 × (14 × 9 mm)
Grounding Holes	Ø4 mm, 4 Nos
Design Mechanical Load	3600 Pa down / 1600 Pa up
Safety Factor	1.5
Weight	33.6 kg

PERFORMANCE DATA

600–630 Wp

INV-T16-24V-600Wp ... 630Wp

BIFACIAL · DUAL GLASS



I-V characteristics are modelled from the STC parameters of the 600 Wp bin and are representative; they are not a substitute for individual flash-test reports.

ELECTRICAL CHARACTERISTICS WITH REAR-SIDE POWER GAIN — REFERENCE 600 WP FRONT

PARAMETER	FRONT ONLY	5% GAIN	10% GAIN	15% GAIN
Maximum Power, Pmax (Wp)	600	630	660	690
Voltage at Pmax, Vmp (V)	40.20	40.20	40.20	40.20
Current at Pmax, Imp (A)	14.92	15.67	16.41	17.16
Open Circuit Voltage, Voc (V)	48.40	48.40	48.40	48.40
Short Circuit Current, Isc (A)	15.80	16.59	17.38	18.17
Module Efficiency (%)	22.23	23.34	24.45	25.56

Rear-side gain depends on ground reflectance (albedo), mounting height and row spacing. Figures are indicative of the stated gain levels, not a guaranteed yield.

CLASSIFICATION & PACKAGING

Application Class	Class A (Safety Class II)	Container	40' HC
Certification	IEC 61215 / 61730-1 & -2	Pieces per Container	

MATERIALS & COMPONENTS

Cells	132 half-cut, N-type bifacial (6 × 22)	Frame	Anodised aluminium alloy
Front Glass	ARC high-transmission, 2.0 mm	Junction Box	IP68
Rear Glass	Semi-tempered, 2.0 mm	Connectors	MC4 compatible
Encapsulant	High volume resistivity, low MVTR	Cable Length	300 mm

WARRANTY

10-year product*
25-year performance*

*Degradation ≤ 1.0% in the first year and ≤ 0.4% per year thereafter.
Terms and conditions apply — innovativesolarsolutions.in/terms-and-conditions.html