

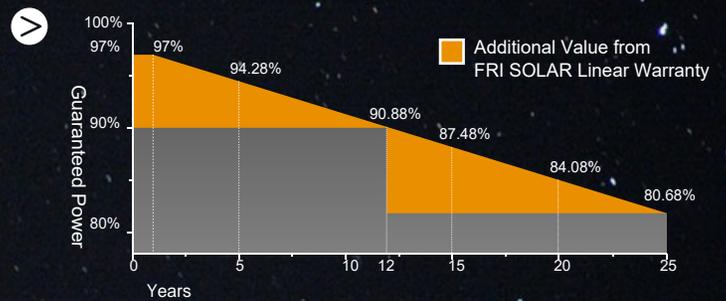
> R36 friline 185 Watt Frameless

158mm 36Cells PV Module

BLACK *BLACK FRAME/BLACK BACK-SHEET PRODUCTS ARE AVAILABLE UPON REQUEST

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12 Years Material & Craft Quality assurance	12 Years 90% Output Power guarantee	25 Years 80% Output Power guarantee	CPIC CERTIFIED
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- > Extreme load resistance
- > Bifacial cell technology up to +20% more power
- > Glass/glass laminate for BIPV use cases

> PRODUCT FEATURE

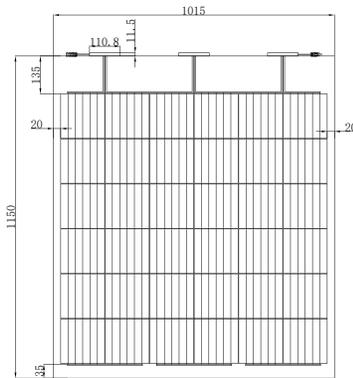
High transmissivity, low-iron tempered glass.	Using high efficiency bifacial solar cells	Excellent performance in low-light environments	High quality junction box and connector systems	100% inspection, to guarantee the reliability of solar systems	Anti LID	Anti PID	Lower temperature coefficient

> MANAGEMENT SYSTEM

	ISO 9001 : Quality management system
	ISO 14001 : Standard for environmental management system
	OHSAS 18001 : International standard for occupational health and safety assessment system

> PRODUCT CERTIFICATES

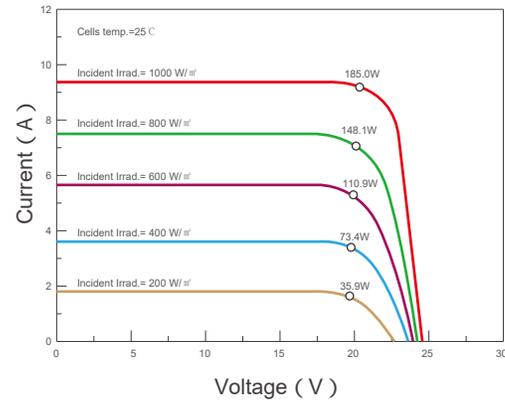
Dimension Drawing



All Dimensions in mm
The above drawing is a graphical representation of the product.
For engineering quality drawings please contact FRI SOLAR.

I-V Graph

Current-Voltage & Power-Voltage Curves (R36 friline)



Electrical Characteristics (STC/NOCT)

Module Type	R36 friline
	STC
Maximum Power- Pmax(W)	185
Open Circuit Voltage - Voc(V)	24.41
Short- Circuit Current - Isc(A)	9.41
Voltage at Pmax -Vmp(V)	20.73
Current at Pmax - Imp(A)	8.92
Module Efficiency -ηm(%)	15.84
Power Tolerance(W)	(0, +4.99W)
Maximum System Voltage(V)	1000/1500Vdc (IEC / UL)
Maximum Series Fuse Rating (A)	15A

STC : Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

Mechanical Specifications

External Dimensions	1150*1015*17mm
Weight	48kg
Solar Cells	Mono crystalline 158.75x158.75mm (36pcs)
Front Glass	8mm Ultra white float glass according EN1863
Back Glass	8mm Plain white float glass according EN1863
Junction Box	IP68
Output Cables	4.0mm ² , 350mm (+), 350mm (-), length can be customized
Connector	MC4 Compatible

Temperature Characteristics

Pmax Temperature Coefficient	-0.370%/C
Voc Temperature Coefficient	-0.28%/C
Isc Temperature Coefficient	+0.048%/C
Operating Temperature	-40 ~ +85 C
Nominal Operating Cell Temperature(NOCT)	45±2 C