

> CP60-6 friline 300-310 Watt Frameless

158mm 60Cells PV Module

BLACK

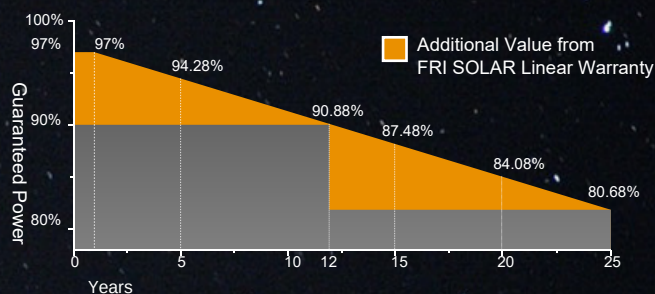
*BLACK FRAME/BLACK BACK-SHEET PRODUCTS ARE AVAILABLE UPON REQUEST



12 Years
Material & Craft
Quality assurance

12 Years
90% Output
Power guarantee

25 Years
80% Output
Power guarantee



> PRODUCT FEATURE

-  High transmissivity, low-iron tempered glass.
-  BIFACIAL 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

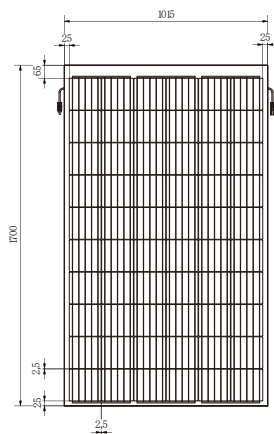
> MANAGEMENT SYSTEM

-  **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



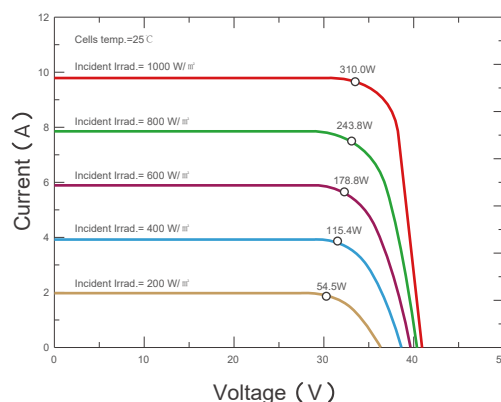
Dimension Drawing



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 (CP60-6 friline)



Electrical Characteristics (STC)

Module Type	CP60-6 friline	
	STC	
Maximum Power- Pmax(W)	300	310
Open Circuit Voltage - Voc(V)	40.86	41.16
Short- Circuit Current - Isc(A)	9.09	9.23
Voltage at Pmax -Vmp(V)	34.74	35.04
Current at Pmax - Imp(A)	8.64	8.85
Module Efficiency -ηm(%)	17.39	17.97
Power Tolerance(W)	(0, +4.99W)	
Maximum System Voltage(V)	1000/1500Vdc (IEC / UL)	
Maximum Series Fuse Rating (A)	20A	

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

Mechanical Specifications

External Dimensions	1700*1015*13mm
Weight	54kg
Solar Cells	Mono crystalline 158.75x158.75mm (60pcs)
Front Glass	6mm Ultra white float glass according EN1863
Back Glass	6mm Plain white float glass according EN1863
Junction Box	IP68
Output Cables	4.0mm ² , 350mm (+), 350mm (-)
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