

PERC-S1 SERIES

Small changes, Big Accomplishments







400-415W



● PERC-S1 SERIES

Fortune Energy redefined the high-efficiency module series by integrating 182mm silicon wafers with multi-busbar and half-cut cell technologies. Fortune Energy panel combined creative technology effectively and extremely improved the module efficiency and power output.

● KEY FEATURES

-  Less mismatch to get more power
-  Less power loss by minimizing the shading impact
-  Competitive low light performance
-  3 times EL test to ensure best quality
-  Ideal choice for utility and commercial scale projects by reduced BoS and improved ROI
-  Outstanding reliability proven by PVEL for stringent environment condition:
 - Sand, acid, salt and hail stones
 - 2400 Pa wind load and 5400 Pa snow load
 - Anti-PID

● QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

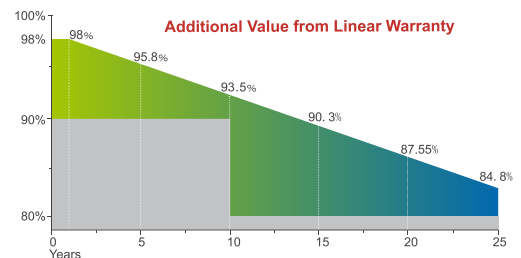
● PRODUCT CERTIFICATION



● INSURANCE

PICC

● WARRANTY



 **15 YEARS** Guarantee on product material and workmanship

 **25 YEARS** Linear power output warranty



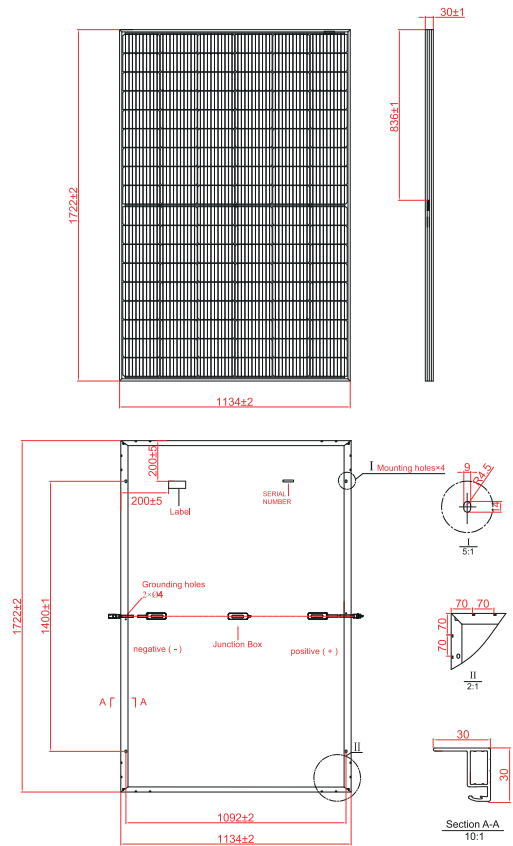
Electrical Characteristics

Module Type	FEPM-400M/6D-H		FEPM-405M/6D-H		FEPM-410M/6D-H		FEPM-415M/6D-H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power at STC (Pmp)	400	301	405	304	410	308	415	311
Open Circuit Voltage (Voc)	37.12	34.64	37.22	34.73	37.32	34.81	37.42	34.90
Short Circuit Current (Isc)	13.60	10.99	13.70	11.07	13.80	11.15	13.90	11.23
Maximum Power Voltage (Vmp)	30.81	28.82	30.93	28.91	31.05	29.05	31.16	29.19
Maximum Power Current (Imp)	12.99	10.44	13.10	10.51	13.21	10.59	13.32	10.66
Module Efficiency at STC(ηm)	20.48		20.74		21.00		21.25	
Power Tolerance	(0, +4.99)							
Maximum System Voltage	1500V DC							
Maximum Series Fuse Rating	25 A							

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5
 Power measurement tolerance: +/-3%

Temperature Characteristics

Pmax Temperature Coefficient	-0.34 %/°C
Voc Temperature Coefficient	-0.26 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40 ~ +85 °C
Nominal Operating Cell Temperature(NOCT)	45±2 °C



Mechanical Specifications

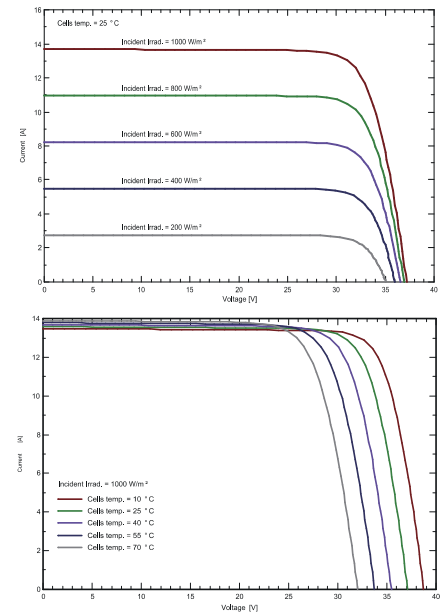
External Dimensions	1722 x 1134 x 30 mm
Weight	21.5 kg
Solar Cells	PERC Mono (108 pcs)
Front Glass	3.2mm AR coating tempered glass, low iron
Frame	Black anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0mm ² , 250mm(+)/350mm(-) or Customized Length
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa

Packing Configuration

	1722 x 1134 x 30 mm	
Container	20'GP	40'HQ
Pieces per Pallet	40	36
Pallets per Container	6	26
Pieces per Container	240	936

For details, please consult FORTUNE ENERGY.

I-V Curve



Specifications are subject to change without further notification FEPM-DS-EN-2023V1.0 © Copyright 2023 Fortune Energy

