

Green life is beautiful



FDS090-12P



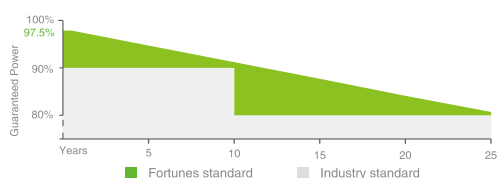
Our company was established in 2002. We have been specializing in manufacturing solar panels, portable PV application products and solar lights for over one decade. Panels are from 1W to 300W. Both mono and poly types are available.

We own IEC, TUV, CE certificates linked with mono and poly solar panels. Our products are sold to clients in the USA, Germany, UK, Netherlands, Australia, New Zealand, Africa and Southeast Asia. We have a good reputation among our clients.

We offer high quality products at competitive prices and excellent after-sale service to our clients. We are willing to set up long-term, mutual benefit relationship with people all over the world.

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty



Key Features



Improved module reliability and conversion efficiency



High power output and conversion efficiency



Designed for DC IEC 1000V application



Self-cleaning reduce power loss from dirt and dust



Outstanding performance in low-light irradiance environments



Certified to withstand high wind loads(2400Pa) and snow loads(5400Pa)



Certified by TÜV NORD

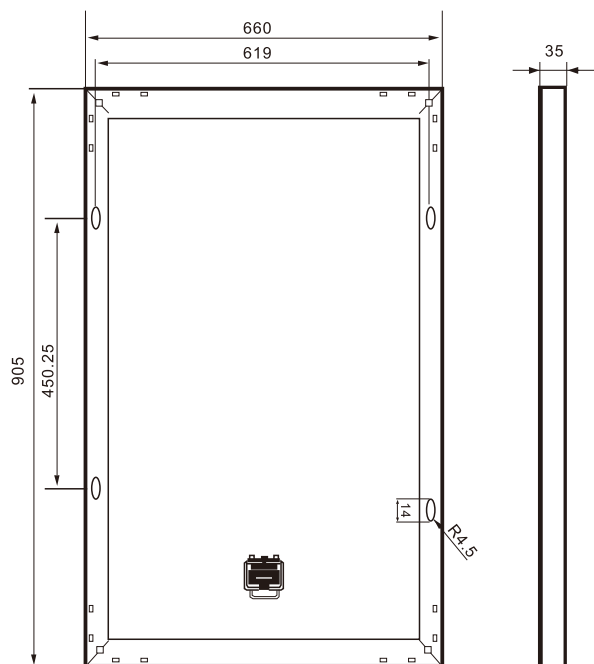
Reliable Quality

- Positive power tolerance:0~+5W
- Modules binned by current to improve system performance
- Improved material to allow modules to operate reliable in multiple mounting configuration

Comprehensive Certificates

- IEC 61215, IEC 61730 and CE
- ISO 9001:2008:Quality management systems
- ISO14001:2004:Environmental management systems

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Temperature Coefficients

NOCT	45 \pm 2 $^{\circ}$ C
Voltage temperature coefficient(Voc)	-0.36%/ $^{\circ}$ C
Current temperature coefficient(Isc)	+0.033%/ $^{\circ}$ C
Power temperature coefficient(Pmpp)	-0.44%/ $^{\circ}$ C
Minimum power tolerance	\pm 10%

NOCT:Nominal Operating cell Temperature

Mechanical Data

Solar Cell	36(4 \times 9) Mono-crystalline 156 \times 93mm
Front Glass	3.2mm high transmission tempered glass
Frame	Anodized aluminium
Backsheet	White / Black
J-Box	IP65

Electrical Data

Module type	FDS090-12P
Nominal peak power(Wp)	90W
Nominal voltage(Vmp)	17.5V
Nominal current(Imp)	5.15A
Open-circuit voltage(Voc)	22.0V
Short-circuit current(Isc)	5.71A
Cell efficiency	18.0%
Operating temperature	-40 $^{\circ}$ C to +85 $^{\circ}$ C
Maximum system voltage	1000V DC
Weight	6.8kg
Dimension	905 \times 660 \times 35mm

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