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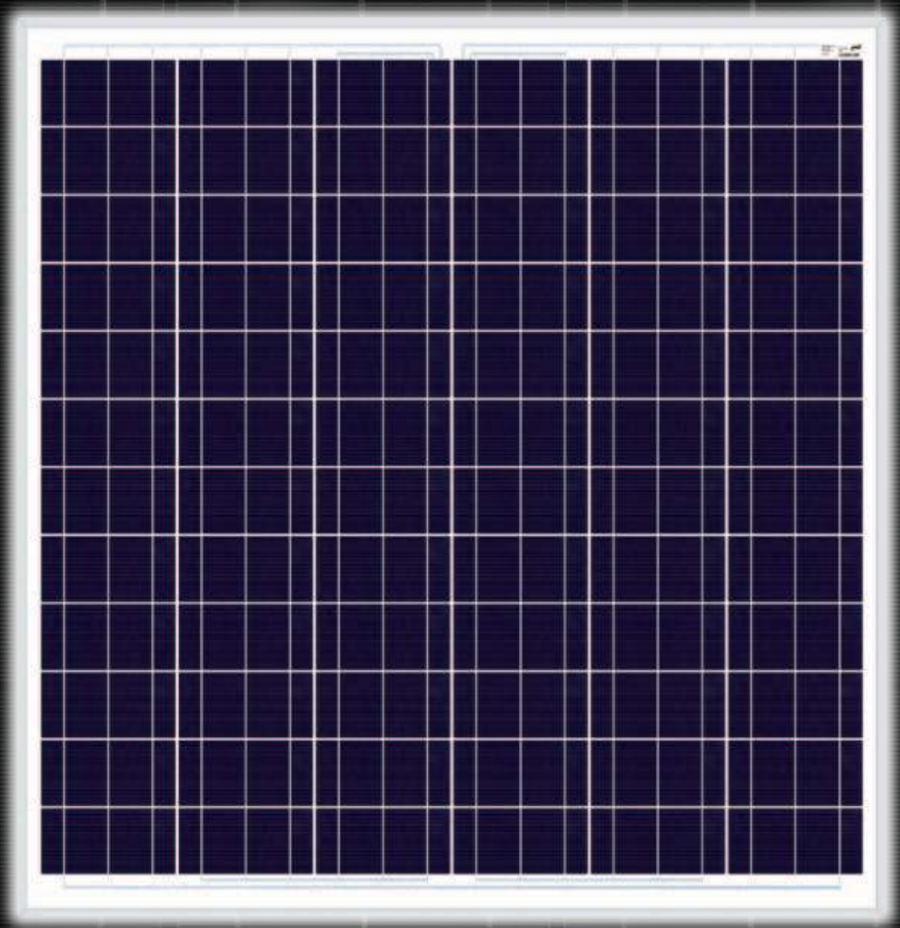
ES 125-150 P72

Photovoltaic Module

EMMVEE photovoltaics

More Efficiency

More Reliability





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EMMVEE

ES 125-150 P72

Photovoltaic Module

Electrical Data at 1000 W/m², 25 °C and AM 1.5 (STC in Accordance with EN 60904-3)		
rated power at STC [1]	125 Wp	150 Wp
module efficiency at STC [2]	13.3%	11.3 %
open-circuit voltage V_{oc}	43.20 V	43.42 V
short-circuit current I_{sc}	3.73 A	4.48 A
rated voltage V_{mpp}	35.64 V	35.82 V
rated current I_{mpp}	3.55 A	4.26 A

[1] The measurement tolerance of the rated power is ± 3%.
[2] At low irradiance (200 W/ m² , 25 °C and AM 1.5) the module yields at least 97% of the STC effiiciency.

Electrical Data at 800 W/m², NOCT, 1 m/s Wind Speed and AM 1.5		
rated power P_{max}	101.3 W	121.5 W
open-circuit voltage V_{oc}	42.79 V	43.01 V
short-circuit current I_{sc}	3.00 A	3.60 A
rated voltage V_{mpp}	35.77 V	35.95 V
rated current I_{mpp}	2.86 A	3.44 A

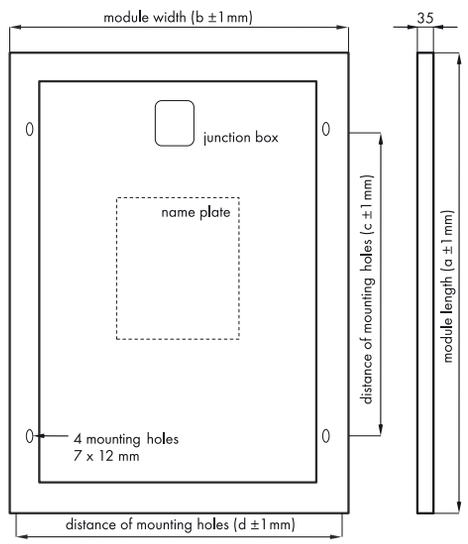
Thermal Data	
temperature coefficient open-circuit voltage	-0.34%/K
temperature coefficient short-circuit current	+0.05%/K
temperature coefficient rated power	-0.43%/K
noct (normal operating cell temperature)	48 °C ± 2 °C

Mechanical Data		
number of cells and cell type	72 polycrystalline solar cells	
module dimensions : length (a) x width (b)	988 x 952 mm	1340 x 990 mm
mounting dimensions : length (c) x width (d)	956 x 635 mm	949 x 491 mm
weight	14.0 kg	18.0 kg
frame thickness	35 mm anodized aluminum	
front glass	3.2 mm high transmission, tempered glass	
embedding	EVA	
back sheet	composite film, white	
junction box	plastic, protection class IP 65	
number of bypass diodes	3	
cables	no	

Permissible Operating Conditions	
operating temperature range	- 40 °C to 85 °C
max. system voltage	600 V DC
max. reverse current	10 A
maximum surface load capacity	5400 Pa or 550 kg/m²
resistance against hail	maximum diameter of 24 mm with impact speed of 83 km/h
protection class	II

Warranty and Certificates	
product warranty	5 years
performance warranty	90 % up to 10 years
certifications	IEC 61215 Ed. II, IEC 61730

Technical Drawing – All Dimensions in mm



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- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection

Your Retailer:

Subject to errors and technical modifications within the scope of product improvement.

Datasheet according to EN 50380.

16.07.2012

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