



Scheuten® solar module

Multisol® M6-54 Series



Multisol® M6-54 is a complete range of high quality, German made solar modules, produced for a wide range of applications. Based on over twenty years of experience these modules are characterized by their long service life, above average yield and excellent workmanship. The quality and reliability of Multisol® modules make them extremely cost-effective and represent a solid investment for the future.

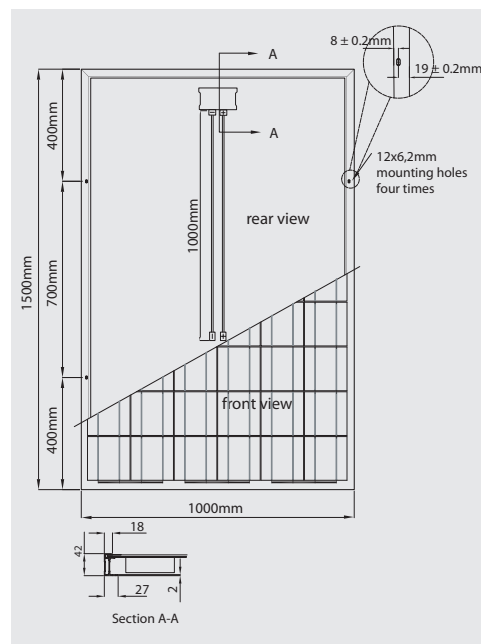
Multisol® M6-54 is selected from a very narrow flash power range resulting in more accurate power, less mismatch losses and as a result higher energy yields and increased revenues from your PV system. The module is equipped with our sturdy ProFix® anodized aluminum frame for easy mounting and our ProConnect IP65 Junction box with its patented connection system.

Multisol® M6-54 is manufactured in Gelsenkirchen (Germany) on one of the most modern module production lines in the world. This guarantees the highest quality available in the market.



Characteristics of Multisol® M6-54 at a glance

- Power range 200 increasing to 210 in 5 Wp steps
- Power tolerance +5 Wp/-2,5 Wp
- Made in Germany
- 25 year power output warranty, 5 year product warranty
- ProConnect® IP65 Junction box with patented connection system
- Very rigid ProFix® silver anodised aluminium frame with hollow chamber able to withstand 5400 Pa
- Quality management ISO 9001
- Environmentally friendly production according to ISO 14001
- Scheuten is a member of PV Cycle



Typical Data at Standard Test Conditions (STC)

Module Type M6-54			200	205	210
Nominal Peak Power	P _{mpp}	[Wp]	200	205	210
Power Tolerance +5/-2,5 Wp					
Power density		[Wp/m ²]	133	137	140
Peak Power Voltage	V _{mpp}	[V]	26,1	26,6	27,0
Peak Power Current	I _{mpp}	[A]	7,66	7,72	7,79
Open Circuit Voltage	V _{oc}	[V]	33,4	33,5	33,6
Short Circuit Current	I _{sc}	[A]	8,28	8,30	8,32
Module efficiency reduction @ 200 W/m ² -0,8% Abs.					

STC: Standard Test Conditions; 1000 W/m², 25°C, AM 1,5

Typical Data at Normal Operating Cell Temperature conditions (NOCT)

TNOCT 44°C					
Peak Power	P _{mpp}	[Wp]	146	149	153
Peak Power Voltage	V _{mpp}	[V]	23,9	24,4	24,8
Peak Power Current	I _{mpp}	[A]	6,09	6,14	6,19
Open Circuit Voltage	V _{oc}	[V]	31,2	31,3	31,4
Short Circuit Current	I _{sc}	[A]	6,71	6,73	6,74

NOCT: Irradiance level 800 W/m², spectrum AM 1,5, wind velocity 1 m/s and ambient temperature 20°C

Thermal Characteristics

Temperature Coefficient I _{sc}	TK I _{sc}	0,07	[%/K]
Temperature Coefficient V _{oc}	TK V _{oc}	-0,34	[%/K]
Temperature Coefficient P _{mpp}	TK P _{mpp}	-0,48	[%/K]

Measurement tolerances P_{mpp} @ STC ± 5% all other electrical parameters ± 10%

Tested Operating Conditions

Temperature	-40°C to 85°C
Max Load	5400 Pascal front and 2400 Pascal back

Mechanical and System Design Data

Dimensions H x W x D	1500 x 1000 x 42 mm
Weight	20 kg
Maximum system voltage	1000 V
Limiting reverse current I _R	15 A
Cells	54 x 6" mono crystalline
Frame	ProFix® Silver anodised aluminium frame with hollow chamber
Glass	4 mm highly transparent low-iron tempered safety glass
Junction Box	ProConnect® IP65 Junction Box with patented connection system
Cabling	2 x 4 mm ² cabling with Multi Contact MC 4 Connectors

Warranty

Warranty	25 year power warranty, 5 year product warranty. For details see our Warranty Conditions
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