solar | glass Scheuten

Scheuten® Solar Module

Multisol® M5-96 Series

Characteristics of Multisol® M5-96 at a glance

- **Power range 225 – 235 W in 5 Wp steps**
- **Power tolerance + 0 / + 10 Wp**
- **Made in Germany**
- **25 year power output warranty, 10 year product warranty**
- **ProConnect® IP65 Junction box with patented connection system**
- **Very rigid ProFix® black anodized aluminium frame with hollow chamber**
- **Quality management ISO 9001**
- **Environmentally friendly production according to ISO 14001**
- **Scheuten Solar is a member of PV Cycle**

Multisol® M5-96 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® M5-96 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® black anodized aluminum frame for easy mounting and our ProConnect IP65 Junction box with its patented connection system.

Multisol® M5-96 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 of which leading warranty conditions are the result.

TÜV PV CYCLE CE

Typical Data at Standard Test Conditions (STC)

			225	230	235
Module Type M5-96					
Nominal Peak Power	Pmpp	[Wp]	225	230	235
Power Tolerance + 0 / + 10 Wp					
Power density		[Wp/m²]	131	134	137
Peak Power Voltage	Vmpp	[V]	46,6	46,9	47,2
Peak Power Current	Impp	[A]	4,82	4,90	4,97
Open Circuit Voltage	Voc	[V]	58,2	58,4	58,7
Short Circuit Current	Isc	[A]	5,19	5,24	5,30
Module efficiency reduction @ 200 W/m² -0,8% Abs.					

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

Typical Data at Normal Operating Cell Temperature conditions (NOCT)

T_{NOCT} 44°C					
Peak Power	Pmpp	[Wp]	164	167	171
Peak Power Voltage	Vmpp	[V]	42,7	43,0	43,3
Peak Power Current	Impp	[A]	3,83	3,89	3,95
Open Circuit Voltage	Voc	[V]	54,4	54,6	54,9
Short Circuit Current	Isc	[A]	4,21	4,25	4,29

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

Thermal Characteristics

Temperature Coefficient Isc	TK Isc	0,05	[%/K]
Temperature Coefficient Voc	TK Voc	-0,33	[%/K]
Temperature Coefficient Pmpp	TK Pmpp	-0,47	[%/K]

Measurement tolerances Pmpp @ STC ± 5% all other electrical parameters ± 10%

Tested Operating Conditions

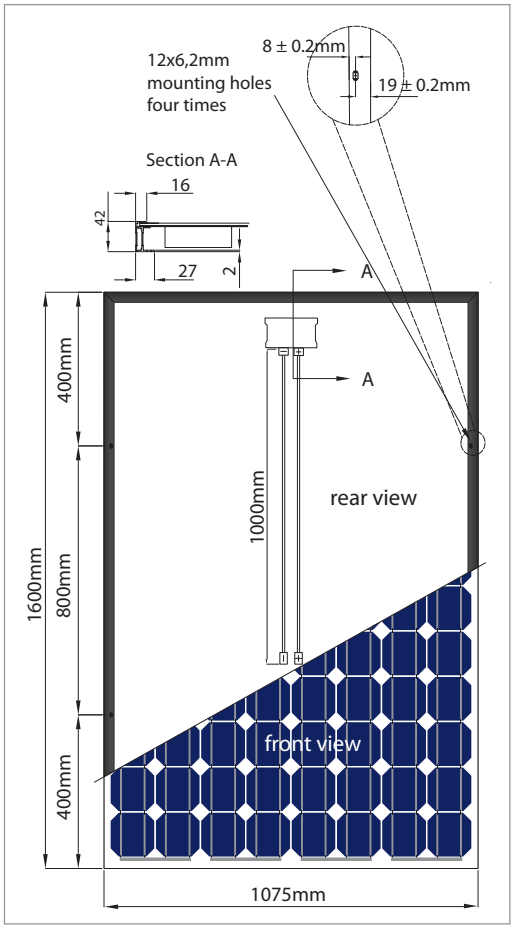
Temperature	-40°C to 85°C
Max Load	2400 Pascal front and 2400 Pascal back

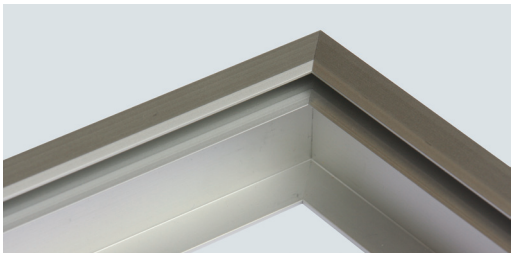
Mechanical and System Design Data

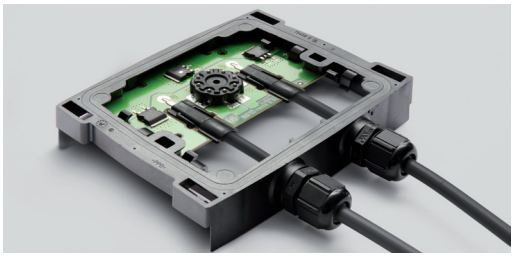
Dimensions H x W x D	1600 x 1075 x 42 mm
Weight	22 kg
Maximum system voltage	1000 V
Limiting reverse current I_R	10 A
Cells	96 x 5" mono crystalline
Frame	ProFix® black anodized aluminium frame with hollow chamber
Glass	4 mm highly transparent low-iron tempered safety glass
Junction Box	ProConnect® IP65 Junction Box with patented connection system and 4 bypass diodes
Cabling	2 x 4 mm² cabling with Multi Contact MC 4 Connectors

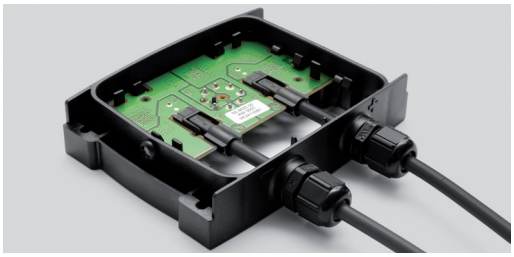
Warranty and Certifications

Warranty	25 year power warranty, 10 year product warranty For details see our Warranty conditions
Certificates	IEC 61215 ed.2, IEC 61730 Application Class A









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This datasheet is not legally binding. Actual specifications and/or product features may deviate.
Caution: Read Safety and Installation Instructions before using the Product. Visit our website for more details.