



Scheuten® Solar Module Gold Line

Multisol® Integra Vitro

P6-54



Characteristics of Multisol® Integra Vitro P6-54 at a glance

Multisol® Integra Vitro is the next generation of Scheuten's Integra (in-roof) solution, suited for almost any sloped roof. This new generation Integra Vitro features the full glass-glass Multisol® Vitro laminate, resulting in superior strength (5400Pa) and an even better durability of the module. This aesthetically pleasing PV in-roof installation system replaces the conventional tile covering, either part of the roof or the entire roof.

Multisol® Vitro glass-glass laminate is selected from a narrow flash power range resulting in more accurate power, less mismatch losses and thus higher energy yields and increased revenues from your PV system. The modules are equipped with a Pro Connect® IP65 Junction box with its patented connection system.

Multisol® Integra Vitro is based on the Solrif system by Ernst Schweizer AG consisting of efficient aluminum construction designed for simple and fast installation. Since the market launch in 1999, the system has been used extensively in a variety of installations (dozens of MWp). The success is based on high quality Swiss craftsmanship together with numerous years of experience and flexibility to fit almost every roof situation.

- **Featuring the innovative full glass-glass Multisol® Vitro laminate**
 - **Highest sturdiness and reliability**
 - **Improved energy yield by f | solarfloat HT glass (quartz hard AR coating)**
 - **Enhanced fire resistance by glass back sheet**
 - **Power tolerance +0/+10 Wp, power range 200Wp – 210Wp in 5Wp steps**
 - **Best-in-class mechanical load: 5400 Pa**
 - **Easy to install, proven Solrif™ frame system**
 - **Available in black coated frame**
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- **Made in Germany**
 - **Best-in-class power output warranty of 25 years with linear decline**
 - **10 year product warranty**
 - **Over 60 years experience in Glass and Solar**

For the completion of the system additional components are necessary which are described in the installation manual



Typical Data at Standard Test Conditions (STC)

Module Type Integra Vitro P6-54			200	205	210
Nominal Peak Power	P _{mpp}	[Wp]	200	205	210
Power Tolerance +0 / +10 Wp					
Power density		[Wp/m ²]	136	139	143
Peak Power Voltage	V _{mpp}	[V]	25,9	26,1	26,4
Peak Power Current	I _{mpp}	[A]	7,71	7,85	7,95
Open Circuit Voltage	V _{oc}	[V]	33,0	33,1	33,2
Short Circuit Current	I _{sc}	[A]	8,22	8,33	8,42
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)

T _{NOCT}	45°C				
Peak Power	P _{mpp}	[Wp]	146	149	153
Peak Power Voltage	V _{mpp}	[V]	23,7	23,9	24,2
Peak Power Current	I _{mpp}	[A]	6,13	6,24	6,32
Open Circuit Voltage	V _{oc}	[V]	30,8	30,9	31,0
Short Circuit Current	I _{sc}	[A]	6,66	6,75	6,82

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

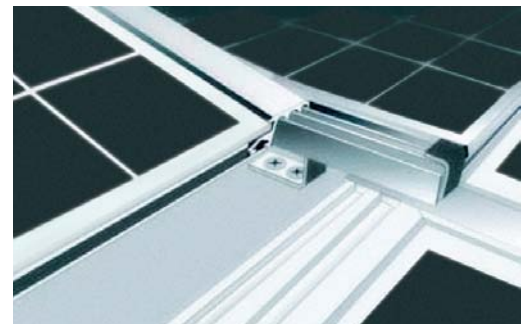
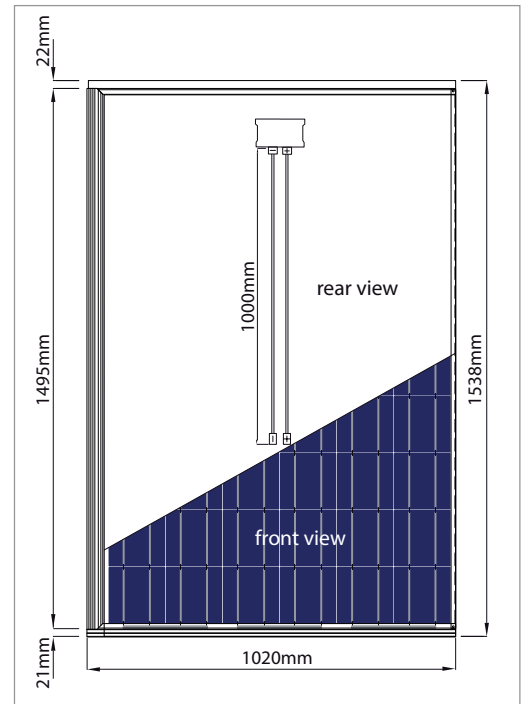
Temperature	-40°C to 85°C
Max Load	5400 Pascal front and 2400 Pascal back

Mechanical and System Design Data

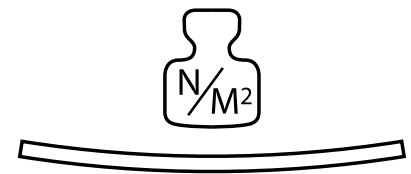
Dimensions H x W x D	1538 x 1020 x 40 mm
Weight	25 kg
Maximum system voltage	1000 V
Limiting reverse current I _r	15 A
Cells	54 x 6" poly crystalline
Bypass Diodes	3
Frame	Frameless
Glass	Front 2.8 mm highly transparent low-iron tempered safety glass. Rear 2.8 mm heat strengthened safety glass
Junction Box	ProConnect® IP65 Junction Box with patented connection system
Cabling	2 x 4 mm ² cabling with Multi Contact MC 4 Connectors

Warranty 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



Mechanical Load 5400 Pa + 50 %*



*Due to glass-glass Multisol® Vitro laminate 50 % more load compared to standard Multisol® Integra

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.