



Scheuten® Solar Module Gold Line

Multisol® Integra Vitro Portrait Solution



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

Multisol® Integra Vitro Portrait 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. Next to the landscape option this aesthetically pleasing PV in-roof installation portrait system enables better matching on the roof form factors and saves up to 30% of the systems' width.

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 feature an industry leading 30 years power output warranty and a 12 years product warranty, which are enabled by Vitro's laminate design and best-in-class f|solarfloat HT glass.

Multisol® Integra Vitro Portrait is based on the Solrif system by Ernst Schweizer AG consisting of efficient aluminum construction design 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 glass-glass Vitro laminate
- Highest sturdiness and reliability
- Saves up to 30% of the systems' width
- 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 210 – 220 Wp in 5 Wp steps
- Best-in-class mechanical load: 5400 Pa
- Easy to install, proven Solrif™ frame system
- Available in black coated frame
- Made in Germany
- Best-in-class power output warranty of 30 years with linear decline
- 12 years product warranty

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 Gold Line			210	215	220*
Nominal Peak Power	Pmpp	[Wp]	210	215	220
Power Tolerance +0 / +10 Wp					
Power density		[Wp/m ²]	14,0	14,3	14,6
Peak Power Voltage	Vmpp	[V]	27,3	27,4	27,6
Peak Power Current	Impp	[A]	7,70	7,85	7,97
Open Circuit Voltage	Voc	[V]	33,3	33,5	33,6
Short Circuit Current	Isc	[A]	8,17	8,30	8,44
Module efficiency reduction @ 200 W/m ² -0,8% Abs.					

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

*limited available

Typical Data at Normal Operating Cell Temperature conditions (NOCT)

T _{NOCT} 45°C					
Peak Power	Pmpp	[Wp]	152	156	159
Peak Power Voltage	Vmpp	[V]	24,9	25,0	25,1
Peak Power Current	Impp	[A]	6,13	6,24	6,34
Open Circuit Voltage	Voc	[V]	31,0	31,2	31,3
Short Circuit Current	Isc	[A]	6,62	6,73	6,84

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	0,07	[%/K]
Temperature Coefficient Voc	TK Voc	-0,34	[%/K]
Temperature Coefficient Pmpp	TK Pmpp	-0,48	[%/K]

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

Tested Operating Conditions

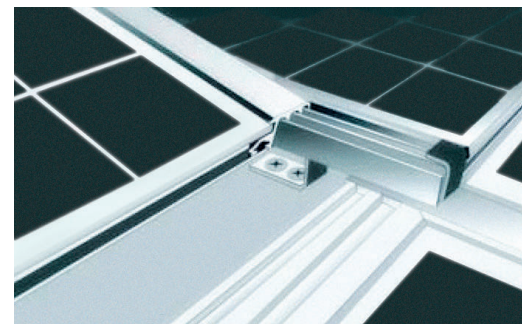
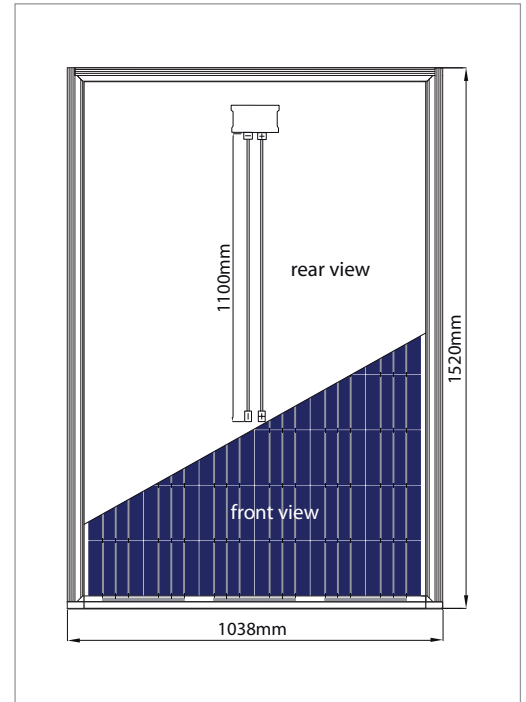
Temperature	-40°C to 85°C
Max Load	5400 Pascal front and 2400 Pascal back

Mechanical and System Design Data

Dimensions H x W x D	1520 x 1038 x 34 mm
Weight	25 kg
Maximum system voltage	1000 V
Limiting reverse current I _r	15 A
Cells	54 x 6" poly crystalline
Frame	Available with black coated frame
Glass	Front 2,8 mm highly transparent low-iron tempered safety glass. Rear 2,8 mm heat strengthened safety glass
Junction Box	Universal Junction Box by Yamaichi, rated IP67 and 3 bypass diodes
Cabling	2 x 4 mm ² cabling with Multi Contact MC 4 Connectors

Warranty and Certifications

Warranty	30 year power warranty, 12 years 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

Scheuten Solar partner:
Company imprint