

SMART VITRUM



Monocrystalline Photovoltaic Module

Glass-Glass 540 - 560 W

TEN HCD



Italian production plant
assembling with european components



144 cells | M10 Technology



Customized production
All Black aesthetic



Planet-Friendly
Made from more sustainable materials



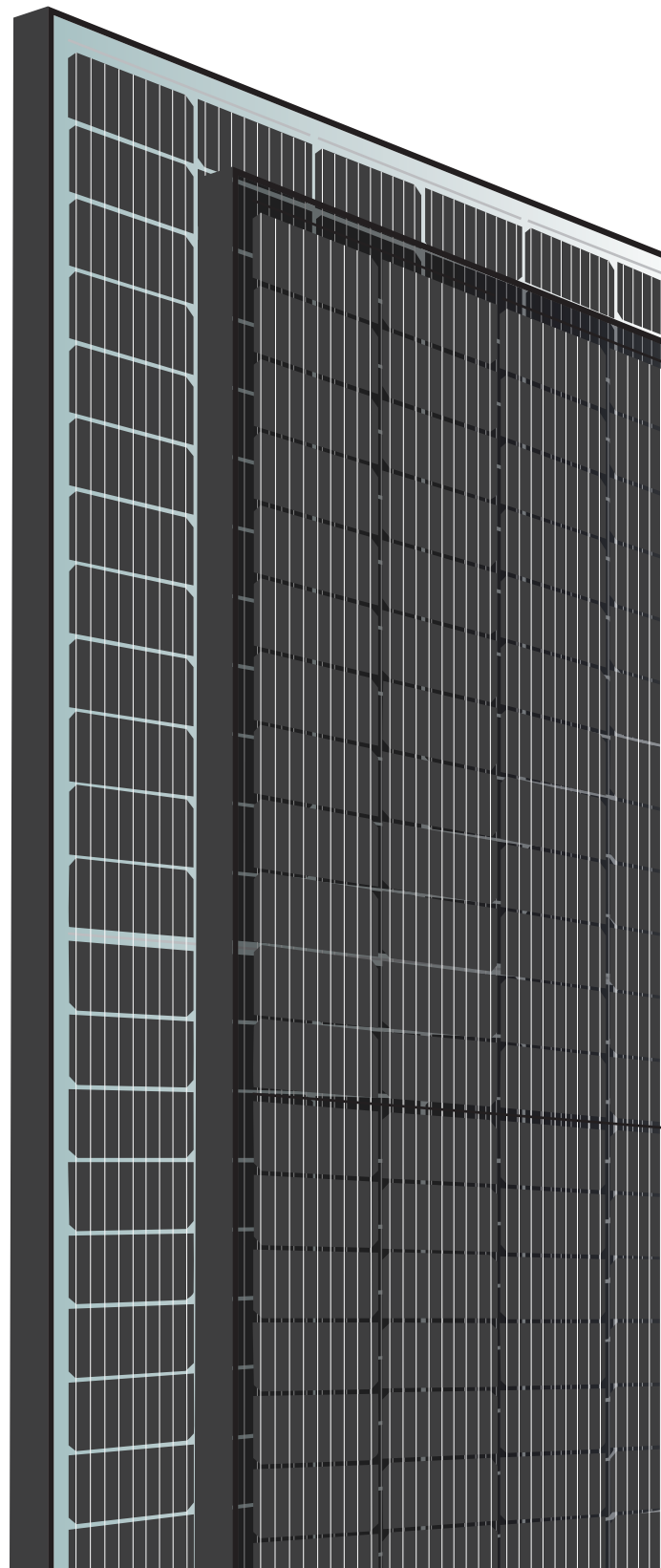
30 years Product Warranty
30 years Linear Warranty



High quality double glass and strong
resistance in extreme weather conditions



Maximized results
thanks to cutting-edge technology



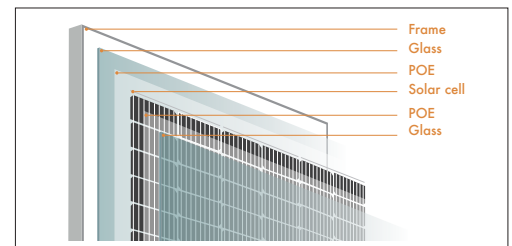
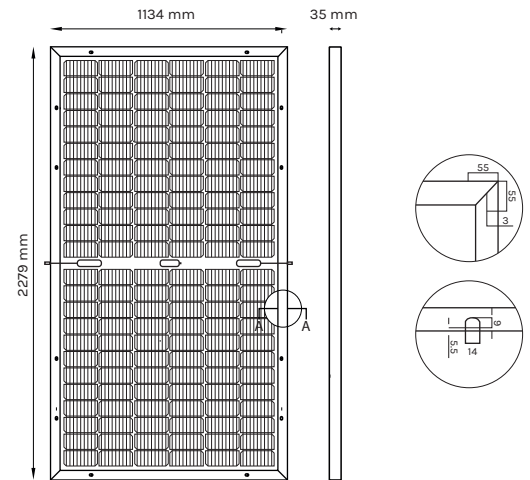
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Monocrystalline Photovoltaic Module Glass-Glass 540 - 560 W TEN HCD



TECHNICAL FEATURES

Cells:	144 (6x24) Monocrystalline Silicon
Available in:	
Frontal Glass:	Coated semi-tempered glass Thickness 2 mm
Back Glass:	Semi-tempered glass Thickness 2 mm
Encapsulant:	POE (PolyOlefin Elastomer)
Frame:	Black/Silver anodized aluminum 15 micron Grounding holes (For more information please contact our sales team)
Junction Box:	IP68 - 1500 V with 3 by pass diodes Cables length 120 cm Section: 4,0 mm ² ± 1% tolerance
Connectors:	MC4 or compatible connector



WEIGHT, DIMENSIONS AND PACKAGING

32 Kg | 2279 mm x 1134 mm x 35 mm | 31 pcs pallet | 682 pcs truck

ELECTRICAL CHARACTERISTICS*

	TEN HCD 540W		TEN HCD 545W		TEN HCD 550W		TEN HCD 555W		TEN HCD 560W	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Peak power: Pmax (W)	540	404	545	407	550	410	555	414	560	418
Voltage Pmax: Vmpp (V)	41.64	39.23	41.83	39.39	42.02	39.55	42.23	39.73	42.42	39.91
Current Pmax: Impp (A)	12.97	10.31	13.03	10.34	13.09	10.39	13.15	10.43	13.21	10.47
Open circuit voltage: Voc (V)	50.34	46.93	50.54	47.14	50.75	47.36	50.93	47.58	51.13	47.79
Short-circuit current: Isc (A)	13.66	11.08	13.73	11.12	13.80	11.16	13.88	11.21	13.94	11.26
Classification tolerance:	0/+5 W		0/+5 W		0/+5 W		0/+5 W		0/+5 W	
Maximum system voltage: (V)	1500		1500		1500		1500		1500	
Module efficiency: (%)	20.89		21.08		21.28		21.47		21.66	
Maximum fuse rating: (A)	25		25		25		25		25	

*STC values: 1000W/m², AM 1.5, temperature 25°C. Measurement tolerance +/-3% (AAA Solar simulation - IEC 60.904-9).

TEMPERATURE CHARACTERISTICS

Temperature Coeff. of Voc:	-0,25 % / °C
Temperature Coeff. of Isc:	+0,05 % / °C
Temperature Coeff. of Pmax:	-0,35 % / °C

OPERATIVE CHARACTERISTICS

Operating Temperature:	from -40°C to +85°C
Hailstorm Resistance:	Ø 25 mm, 86 Kg/h
NMOT*:	45 ± 2 °C

*Nominal Module Operating Temperature: Irradiance 800W/m², Temperature 20°C, Wind speed 1m/s

WARRANTIES

30 YEARS
Product Warranty

30 YEARS
Linear Warranty

PREMIUM
+5

SOLARDAY CERTIFICATES

IEC 61215:2016 | EN 61730-1:2016 | EN 61730-2:2016
UNI 9177 Class 1 Fire Class | FIRE TEST MST23 CLASSE C
IEC 62716:2013 | IEC 61701:2011
ECOEM

UNI EN ISO 9001:2015
UNI EN ISO 14001:2015
UNI EN ISO 45001:2018
CE

VKF
SUNDAHUS
BRGB
MCS

Read the instruction manual for this product before proceeding with the installation. In light of continuous technical development, all information in this brochure may be modified by Solarday without notice.

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