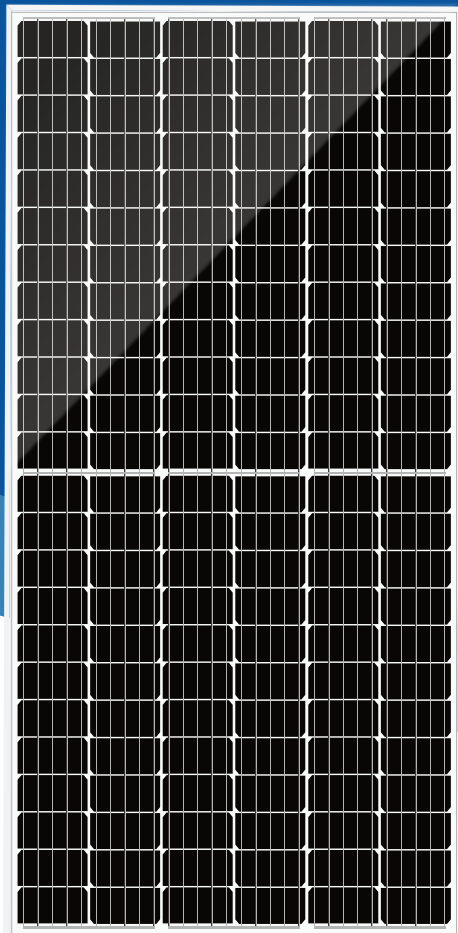


144 HCDS E440/460

Dual Series

Evo 460W

HALF CUT TECHNOLOGY



Main product features



Positive tolerance

Guaranteed positive power tolerance 0/+5 %



+20% Efficiency

More output power per m²



Reduced Hot Spot

Optimized electrical design
Better temperature coefficient
Lower operating current



Multi Busbar Technology

-Improved reliability
-Higher efficiency
-Reduced series resistance



Customized production

-Cable length + Staubli connector
-Mounting wholes
-Standar, black and translucent finishings



Certified Quality

-TUV Rheinland IEC 61215 / 61730
-UL 790
-Class C Safety fire
-IEC 61140 Safety Class II
-2014/35 EU Low Voltage

Your PV manufacturer



12 years of technological expertise



Solar Made simple on +3.500 projects



25 years power output warranty



Full certifications for Europe



Factories in UE and Asia



15 years product warranty
+ 5 years for Premium Partners

144 HCDS E440/460 Dual Series

Electrical Data		Evo 440W		Evo 450W		Evo 460W	
Dimensions	*+/-1% [mm]	2094 x 1038 x 35	2108 x 1048 x 35	2094 x 1038 x 35	2108 x 1048 x 35	2094 x 1038 x 35	2108 x 1048 x 35
Module efficiency	[%]	20,2		20,7		20,82	
Watt Sourcing	[W]	0 / +5		0 / +5		0 / +5	
Test		STC*	NMOT**	STC*	NMOT**	STC*	NMOT**
Nominal power (P _{mp})	[Wp]	440	332,2	450	338,7	460	342,5
Open-circuit voltage (V _{oc})	[V]	48,58	46,81	49,89	47,18	49,98	47,37
Short-circuit current (I _{sc})	[A]	11,35	9,14	11,37	9,26	11,75	9,32
V _{mp} -Nominal Power Voltage (V _{mp})	[V]	40,97	38,54	34,08	38,88	41,96	39,06
Nominal Power Current (I _{mp})	[A]	10,71	8,59	10,86	8,71	11	8,77

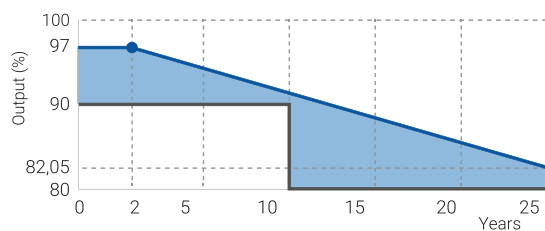
*STC, Standard Test Conditions; Irradiance 1000W/m², 1,5 AM. 25°C cell temperature. Production spread +/-3% (AAA Solar Simulation - IEC 60904-9).
**NMOT, Nominal Module Operating Temperature; Irradiance 800W/m², 1,5 AM. 20°C temperature. Windspeed 1m/s. Power Class indicated at STC Above

Maximum Ratings *		STC Temperature Ratings	
System voltage	1500V DC	α I _{sc}	0,040 % / °C
Series fuse rating	Ir 20 A	β V _{oc}	- 0,29 % / °C
Hailstone resistance	25mm / 23m/s	γ P _{max}	- 0,37 % / °C
Max. Reverse Current	20A	Temperature range	- 40°C ~ + 85 °C
Test load Front Rear	5,400 Pa / 2.400 Pa	Nominal Operating Cell Temperature	43 ± 2 °C

*Check Soltevo installation manual for designing/mounting PV modules. Apply 1,5 safety Factor.

Warranty

Product Warranty	15 Years +5 Premium Pro
Power Warranty	25 Years 82% Linear Warranty

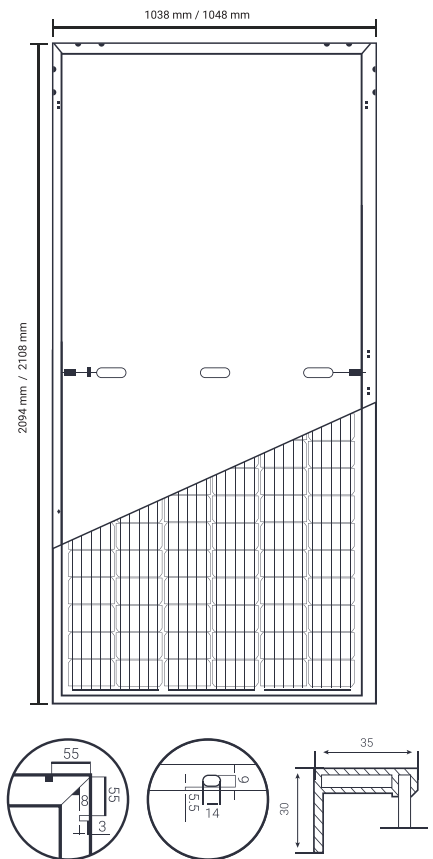


SOLTEVO
LINEAR WARRANTY

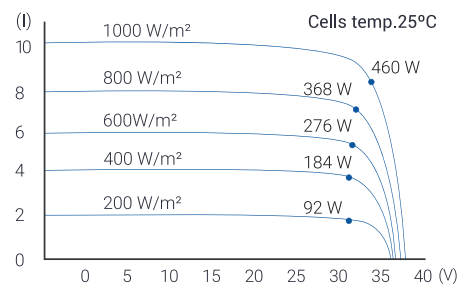
TRADITIONAL WARRANTY

Product Data

Frame	-Black / Silver anodized aluminium 0,015 mm -Robust and resistant to corrosion -Mounting holes (for more information please contact our sales team)
Connection Box	-Sealed, robust and wide for heat dissipation -IP68 according to IEC 60529 Diodes by-pass built-in (3/6) -Connector MC4 or compatible -Cables 0,30 meter (±0,1 m) length and 4 mm ² section -Fire Class I approval (UNI 9177)
Frontal	-3.2 mm thick tempered glass with high strength and ARC -Textured, extra-clear with low iron content
Backsheet	White / Black
Solar Cells	Available in: G type cells: M type cells: 144 cells monocrystalline silicon.



I-V Curves



Certifications / Directives

IEC 61215
IEC 61730
EN 50618 in accordance to cabling
Safety electric shock II
UL 790 Fire Resistance - Class C
2014/35 EU Low Voltage



SOLTEVO
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Commercial Office:
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Module / Packaging
2108 x 1048 x 35 L x W x D 2094 x 1038 x 35
25kg Module Weight 25kg
682 Pcs Full truck 704pcs
62Pcs 1+1palet 64pcs

NOTE: Due to continuous improvement and technical innovation, data above mentioned may vary or be modified. Soltevo have the sole right to update the info at anytime without further notice. Latest brochures, manuals and technical data sheet can be downloaded from www.soltevo.com. Ref: Soltevo_144CCCS_Evo440/460_En_Jun21