

RA MODULI IBRIDI- SPECIFICHE TECNICHE

		PV Electrical specifications STC (Standard Test Conditions) 1.000 W/m ² (25±1) °C AM 1,5 EN 60904-3							
Model Ra panel		EASRA024	EASRA026	EASRA028	EASRA030	EASRA032	EASRA034	EASRA036	EASRA038
Nom.Power +/- 3%	P_{max}(W_p)	120	130	140	150	160	170	180	190
Power per Area Unit	(W/m²)	191	191	192	192	192	192	193	193
Electrical/Thermal	power ratio	3,75							
Efficiency panel	η(%)	19,1	19,1	19,2	19,2	19,2	19,2	19,3	19,3
Voltage at max power	U_{Mpp}(V)	13,3	14,4	15,5	16,7	17,8	18,9	20,0	21,1
Current at max power	I_{Mpp}(A)	9,2							
Open Circuit Voltage	U_{oc}(A)	15,9	17,2	18,5	19,9	21,2	22,5	23,8	25,2
Short Circuit Current	I_{sc}(A)	9,6							
Max Reverse Current	I_R(A)	20							
Max System Voltage	V_{sys}(V)	777							
TKCurrent	α (%/K)	+ 0,040							
TKVoltage	β (%/K)	- 0,360							
TKPower	γ (%/K)	- 0,36							
NOCT	°C	Temperature selected by the user (Typical from -10° to 75°)							

		Thermal Collector Specifications							
Model Ra panel	Code	EASRA024	EASRA026	EASRA028	EASRA030	EASRA032	EASRA034	EASRA036	EASRA038
Thermal Power	(W)	450	488	525	563	600	638	675	713
Power per Area Unit	(W/m²)	715	717	718	719	720	721	722	723
Hydraulic connector	Fast release	Technopolymeric Push-in Fittings 14 mm internal diameter							
Pressure	(mmH₂O)	1	1	1	1	1	1	1	1
Volume flow rate	(l/min)	17	17	17	17	17	17	17	17
Coolant fluid volume	Liters	6,2	6,7	7,2	7,7	8,2	8,7	9,2	9,8
Coolant fluid	min 25%	Water +25% Inhibited Propyl Glycole							
Gross area	(m²)	0,63	0,68	0,73	0,78	0,83	0,88	0,94	0,99
Aperture area	(m²)	0,61	0,66	0,72	0,77	0,82	0,87	0,92	0,97
Absorber area	(m²)	0,61	0,66	0,72	0,77	0,82	0,87	0,92	0,97
Thermal insulation	Lambda = 0,037	12 mm Fireproof polystyrene class 150 or PP alveolare							
Operative/Max pressure	(bar)	1,5							

		Mechanical Specifications							
Model Ra panel	Code	EASRA024	EASRA026	EASRA028	EASRA030	EASRA032	EASRA034	EASRA036	EASRA038
Size W 325 x H 43	L (mm)	1935	2092	2249	2406	2563	2720	2877	3034
Yield Coverage	(%)	97%	98%	98%	98%	98%	98%	98%	98%
Empty Weight	(Kg)	17,3	18,7	20,1	21,5	22,9	24,3	25,7	27,1
Weight with Coolant	(Kg)	23,5	25,4	27,3	29,2	31,1	33,0	34,9	36,8
Junction Box		Sic junction box are on the backside. Protection Class IP67							
Connectors		Tyco Connectors IP67							
Front Cover		4 mm tempered glass							
Back Cover	Lambda = 0,037	12,5 mm Fireproof polystyrene class 150							
Cells type		Monocrystalline silicon cells, 156 x 156mm							
N° Cells & Layout	Double Line	24	26	28	30	32	34	36	38
Cells Encapsulation		E.V.A.							
Frame		Not present							
Chassis		Extruded Aluminum 6063							
Grounding Point		2 Bus Line on Aluminum profile							
Interaxis fixing	mm	310							