

1/2

# EKI ° 8%

## I ] Zgb Va°EK°B dYj a

### B 6C°8=6G68I : GHI 8H

= nWgY°1 ] Zgb d°E didkdaVX°B dYj a°[dgi] Z°egY] Xi°dc°d[ZaXigXVaZcZg°nl°Ydb ZhiX°] di°  
I ViZgVcY°[dgi] ZVi°c°#

### L 6GG6CI N

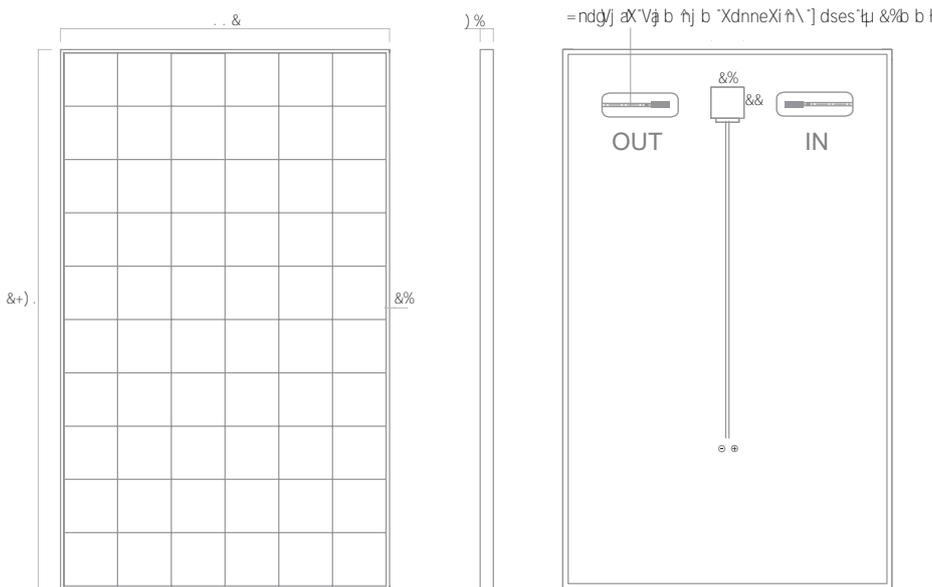
- %/ °d[i] Z°edi Zgsj eeaZ°d°Wh°i] Z°EK°b ddj a°Vi°&°] °nZVg
- 5 % of the power supplied by the PV module at 25<sup>th</sup> year
- 5-year product warranty against manufacturing defect on the hydraulic part
- 15-year product warranty against manufacturing defect on the electrical part

### 8DCHI GJ 8I °DC°EGDE: GI °>°H

B ddj a°s°de/	&+) 0 m. . & m35/) %°b b (+/-2 mm)
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8 eais°de/	&* +m&* +°b b
< a/ss/	I eb eeg°d°\a°ss°i] X°ness°( # °b b

### 8: GI °>°86I °DCH

8eg°fed b ddj aas: 8: °>°8°+&° &\* / %°%°  
8eg°fed b ddj aas: 8: °: C°+&, (%°/ %°%



- I eb eeg°d°\a°ss
- : K6°s] eei
- Ea°Xeb eni°sign°s°Xeas
- 8 dnneXi°dn°k°V°g°W°dn°l° eaeY°b eiVa
- H] eei°: ke°VnY°eggieXi°ke°XdVi°h°
- Gda°\ Vi&°%t
- : °h°h] °h°h°YZh
- sh°i°Vai°dn°d°[i] Z°j°c°Xi°dc°W°dm
- 6°b °h°j b °b°dj ni°h°\°g°b°Z
- Gda°7°dnY°V°hd°g°ZY°V°hh°Zb°Vae°V°i°° °h°h° a°i°dn°°VnY°ad°X° °h°\°V°j b °h°j b °[d°a
- : °h°Vai°Zhi

### =: 6I °I°G6CH; : G°; AJ °9

L Viegedanege°ene°\°n°Xdab °h°ij °e°I °] °Xd°ps°dn°°h° °Wd°g°°8°d°g°Vni°°6ni°°g°d°ven°A°#

\* I ZXdb : cZg°Z°H°eg°h°g°Z°i] Z°g°n] i°id°X] Vc°Z°eg°Y] Xi°heZX°(°X°Vi°dch°I °] °d] i°cdi°XZ°#

# PVT 280

## Thermal PV Module



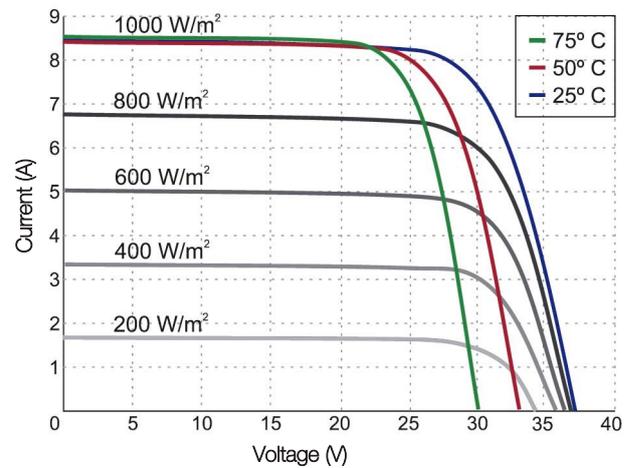
### ELECTRICAL CHARACTERISTICS (STC)

	M.U.	DATA
Maximum power output (P <sub>max</sub> )	W <sub>p</sub>	280
Power Tolerance	%	+/-3
Voltage at maximum power (V <sub>mp</sub> )	V	31,5
Current at maximum power (I <sub>mp</sub> )	A	8,89
Open-circuit voltage (V <sub>oc</sub> )	V	38,6
short circuit current (I <sub>sc</sub> )	A	9,31
Maximum Allowable Voltage (V <sub>dc</sub> )	V	1000
Panel efficiency	%	17,21

Performance at STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25°C, AM 1.5

### FUNCTIONAL THERMAL PARAMETERS

	M.U.	DATA
Temperature Coefficient of V <sub>oc</sub> (β)	% / °C	-0.31
Temperature Coefficient of I <sub>sc</sub> (α)	% / °C	+0.049
Temperature Coefficient of P <sub>max</sub>	% / °C	-0.40
Nominal Operating Cell Temperature (NOCT)	°C	44



### FUNCTIONAL THERMAL PARAMETERS

	M.U.	DATA
Instantaneous absorber efficiency $\eta_0$		0,53
Linear coefficient of thermal dispersion $a_1$	W/(m <sup>2</sup> °K)	9,5
Temperature coefficient $a_2$	W/(m <sup>2</sup> °K <sup>2</sup> )	0,012
Thermal peak power	W	900
Pressure drop	mbar	100
Maximum operating temperature	°C	85
Minimum unit capacity	bar	4
Maximum working pressure	lt/h	100
Weight of empty collector	Kg	28
Volume of fluid in the collector	lt	0,65
Gross area	m <sup>2</sup>	1,63
Aperture area	m <sup>2</sup>	1,57
Absorber area	m <sup>2</sup>	1,48
Connecting tubes diameter	mm	10 x 1,5
Heat transfer fluid*		water-propylene glycol mixture with corrosion inhibitors
Insulation thickness	mm	30
Aluminum foil thickness	mm	0,4
Standards		UNI EN 12975 - CEI EN 61215 - CEI EN 61730