



PROGETTO ESECUTIVO

Appalto integrato sulla base del progetto di fattibilità tecnica ed economica "Smart City Napoli Nord - Piani Urbani Integrati – M5C2 – I.2.2"

CIG 972663946C CUP I45I22000020006 - CUP I45I22000030006

RTI



OPUS COSTRUZIONI S.P.A.

Capogruppo

P.IVA 07201350639

Via Campana 233, Pozzuoli



ARCHIVOLTO SRL

Mandante

P.IVA 07162480631

Via O. P. Cafaro n.4, Napoli

RTP

SAG ARCHITETTURA SRLS

P.IVA 09189081210

Sede legale: Via Posillipo 66, Napoli

MASCOLO INGEGNERIA SRL

P.IVA 08524811216

Sede legale: Via Gramsci 19, Cicciano

ELECTA SRL

P.IVA 04082971211

Sede legale: Via Principe di Piemonte 109, Roccarainola

RUP

Arch. Pasquale Imbema

PROGETTO ELETTRICO - (Casandrino Viale del Riposo)
Capitolato Speciale - Parte Tecnica - Progetto impianto fotovoltaico_Pensilina

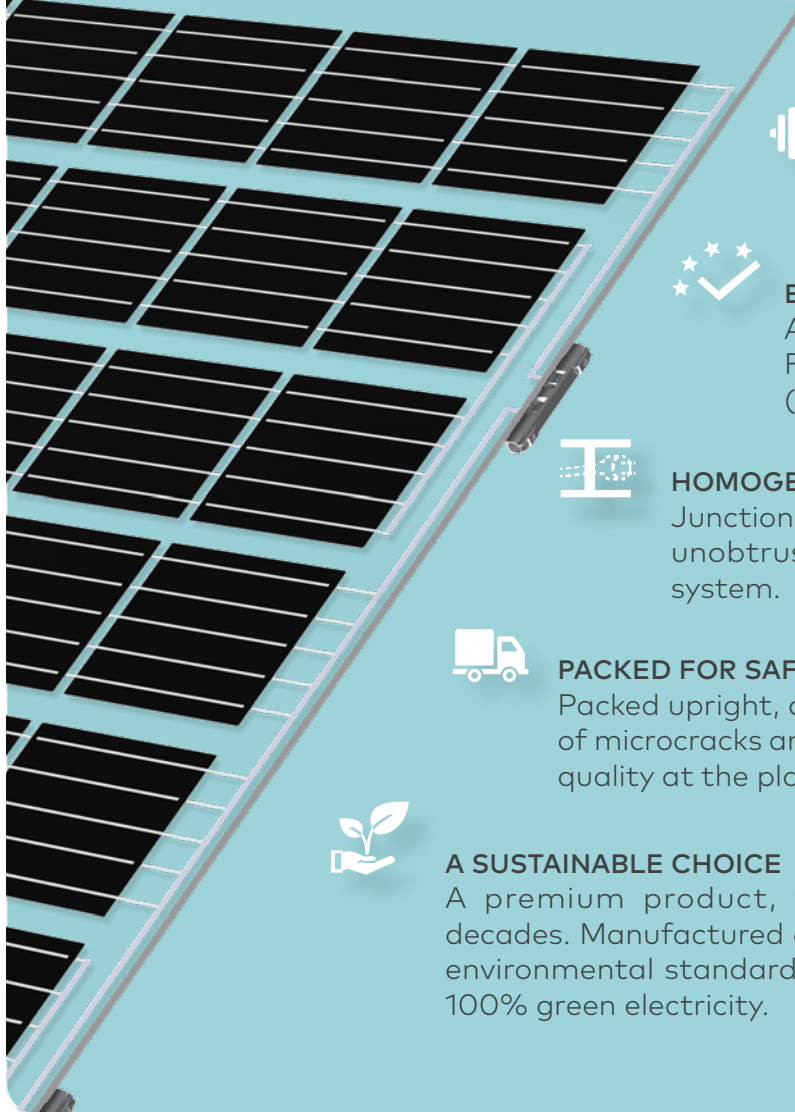
DATA EMISS.	Aprile 2024		CODIFICA	CSD.PE.ELT.R. 004_01
SCALA	-	FORMATO		

REVISIONE	DESCRIZIONE	DATA	APPROVATO DA
01	Integrazione rapporto di validazione	Giugno 2024	
00	prima emissione	Aprile 2024	

ELEGANTE 200-210 W

Premium PV Panel

Solar safety glass.



TRANSPARENCY ~28%
The perfect balance of light and shadow.



ROBUST
Strong construction -
2 x 4 mm partially tempered glass.



BUILDING PRODUCT
According to guideline DIN 18008.
For vertical and overhead glazing
(abZ of DIBt Z-70.3-232).



HOMOGENEOUS OPTICS
Junction boxes can be installed
unobtrusively in the mounting
system.



PACKED FOR SAFE TRANSPORT
Packed upright, avoiding the emergence
of microcracks and thus ensuring factory
quality at the place of delivery.



A SUSTAINABLE CHOICE
A premium product, which lasts for
decades. Manufactured according to rigid
environmental standards. Produced with
100% green electricity.

MADE IN GERMANY!

Right here. In Prenzlau. In our production facility.
Here we manufacture under the aspects of
quality & durability since 2001.

FULL SERENITY



30 Years linear
Power Guarantee



30 Years
Product Warranty

100% cost recovery of guarantee claims.

Under the terms and conditions of the respective guarantee certificate.

QUALITY UNDER HAND AND SEAL



aleo solar PV-safety glass Elegante

ELECTRICAL DATA (STC)		G40C200	G40C210
Rated power	P_{MPP} [W]	200	210
Rated voltage	V_{MPP} [V]	21.7	22.3
Rated current	I_{MPP} [A]	9.22	9.42
Open-circuit voltage	V_{OC} [V]	26.8	27.1
Short-circuit current	I_{SC} [A]	9.71	9.91
Efficiency	η [%]	13.2	13.8

Electrical values measured under standard test conditions (STC): 1000 W/m²; 25°C; AM 1.5

BASIC DATA	
Length x width x height	[mm] 950 x 1600 x 9 (12.5 mm height junction box)
Weight	[kg] 31.5
Number of cells	40
Cell size	[mm] 158.75 x 158.75
Cell material	Monocrystalline Si, PERC,
Number of bus bars	5
Front glass	4.0 mm Solar glass (TSG)
Back glass	4.0 mm Solar glass (TSG)

BASIC DATA JUNCTION BOX	
Length x width x height	[mm] 105.8 x 15.5 x 12.5
IP class	IP67
Cable length	[mm] 820
Connectors	TE Slim Line
Bypass diodes	2 (one per junction box)

LOADS	
Max. pressure load	[Pa] 7500*
Max. suction load	[Pa] 5400*
Max. system voltage	[V _{DC}] 1000
Reverse current load	I_R [A] 20
Mechanical load acc. to IEC/EN 61215	
* Please observe the mounting conditions in the installation manual	

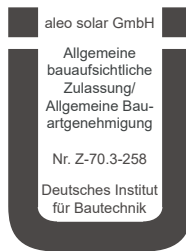
TEMPERATURE COEFFICIENTS			
Temperature coefficient I_{SC}	$\alpha (I_{SC})$	[%/K]	+0.05
Temperature coefficient V_{OC}	$\beta (V_{OC})$	[%/K]	-0.29
Temperature coefficient P_{MPP}	$\gamma (P_{MPP})$	[%/K]	-0.40

Measurement tolerance of P_{MPP} under STC -3/+3% | Accuracy of other electrical values -10/+10%
Efficiency relating to gross PV-safety glass area

ADDITIONAL ELECTRICAL DATA		
Reduction of STC efficiency from 1000 W/m ² to 200 W/m ²	[%] rel.	< 2
Classification range (positive classification)	[W]	0/+9.99

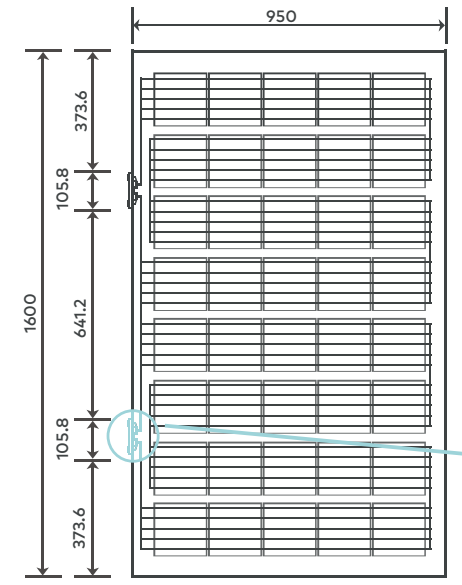


The regulations of laminated safety glass according to DIN 18008 apply to the planning, dimensioning and execution of the glazing.

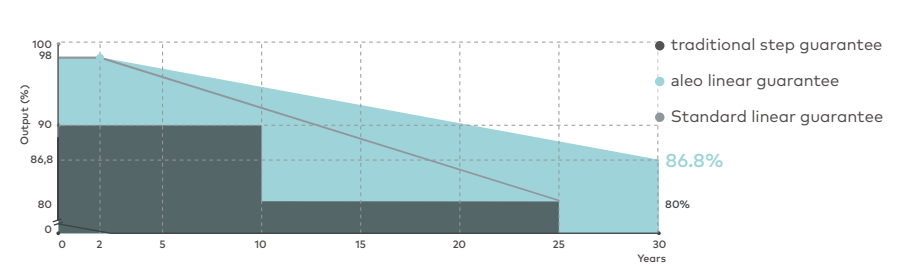


CERTIFICATIONS AND WARRANTY	
Product Guarantee	30 years
Power Guarantee	30 years
Fire Resistance	Class A according to IEC 61730-2
Protection Against Electric Shock	II
Certifications	architectural certification from DIBt

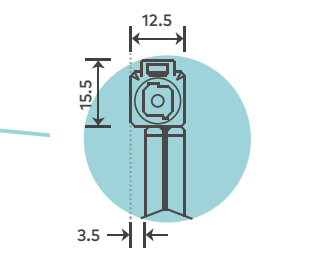
DIMENSIONS [mm]



PERFORMANCE GUARANTEE



DIMENSIONS JUNCTION BOX [mm]



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

ALEO SOLAR GMBH
Marius-Eriksen-Straße 1
17291 PRENZLAU
GERMANY

CONTACT
+49 3984-8328-0
info@aleo-solar.com
www.aleo-solar.com



MIC 750~3300TL-X

- Maximum efficiency of 97.6%
- Compact design
- Touch key& OLED display
- Flexible monitoring options
- AFCI optional



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P O W E R
- I N G O
T O M O -
R R O W O

Datasheet	MIC 750TL-X	MIC 1000TL-X	MIC 1500TL-X	MIC 2000TL-X	MIC 2500TL-X	MIC 3000TL-X	MIC 3300TL-X
Input data (DC)							
Max. recommended PV power (for module STC)	1050W	1400W	2100W	2800W	3500W	4200W	4290W
Max. DC voltage	500V	500V	500V	500V	550V	550V	550V
Start voltage	50V	50V	50V	50V	80V	80V	80V
Nominal voltage	120V	180V	250V	360V	360V	360V	360V
MPP voltage range	50V-500V	50V-500V	50V-500V	50V-500V	65V-550V	65V-550V	65V-550V
No. of MPP trackers				1			
No. of PV strings per MPP tracker				1			
Max. input current per MPP tracker				13A			
Max. short-circuit current per MPP tracker				16A			
Output data (AC)							
AC nominal power	750W	1000W	1500W	2000W	2500W	3000W	3300W
Max. AC apparent power	750VA	1000VA	1500VA	2000VA	2500VA	3000VA	3300VA
Nominal AC voltage(range*)				230V (180-280V)			
AC grid frequency(range*)				50/60 Hz (45-55Hz/55-65 Hz)			
Max. output current	3.6A	4.8A	7.1A	9.5A	11.9A	14.3A	14.3A
Adjustable power factor				0.8leading...0.8lagging			
THDi				<3%			
AC grid connection type				Single phase			
Efficiency							
Max. efficiency	97.4%	97.4%	97.4%	97.4%	97.6%	97.6%	97.6%
European efficiency	96.5%	96.5%	97.0%	97.0%	97.0%	97.1%	97.1%
MPPT efficiency				99.9%			
Protection devices							
DC reverse polarity protection				Yes			
DC switch				Yes			
AC/DC surge protection				Type III / Type III			
Insulation resistance monitoring				Yes			
AC short-circuit protection				Yes			
Ground fault monitoring				Yes			
Grid monitoring				Yes			
Anti-islanding protection				Yes			
Residual-current monitoring unit				Yes			
AFCI protection				Optional			
General data							
Dimensions (W / H / D)				274/254/138mm			
Weight	6kg	6kg	6kg	6kg	6.2kg	6.2kg	6.2kg
Operating temperature range				-25°C ... +60°C			
Nighttime power consumption				< 0.5W			
Topology				Transformerless			
Cooling				Natural convection			
Protection degree				IP65			
Relative humidity				0-100%			
Altitude				4000m			
DC connection				H4/MC4(Optional)			
AC connection				Connector			
Display				OLED+LED/WIFI+APP			
Interfaces: RS485 / USB/WI-FI / GPRS / RF/LAN				Yes/Yes/Optional/Optional/Optional /Optional			
Warranty: 5 years / 10 years				Yes /Optional			
CE,AS4777, AS/NZS 3100, CEI 0-21, VDE-AR-N 4105, VDE 0126-1-1, UTE C 15-712-1, EN50549, IEC 60068, IEC 61683, IEC 62116, IEC 61727, INMETRO, G98, C10/C11, UNE217001, UNE206007, PO12.2							

* The AC voltage and frequency range may vary depending on specific country grid standard.
All specifications are subject to change without notice.