

**STUDIO ALCHEMIST**  
Ing. Stefano Floris - Arch. Cinzia Nieddu



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## COMUNE DI OZIERI

OGGETTO  
**REALIZZAZIONE DI IMPIANTO FOTOVOLTAICO A TERRA  
22,96 MW - TIPO A INSEGUIMENTO MONOASSIALE**

COMMITTENTE  
SUN INVESTMENT

## PROGETTO DEFINITIVO

ELABORATO  
**DETTAGLI COSTRUTTIVI - INVERTER**

NUMERO ELABORATO

**AU 11**

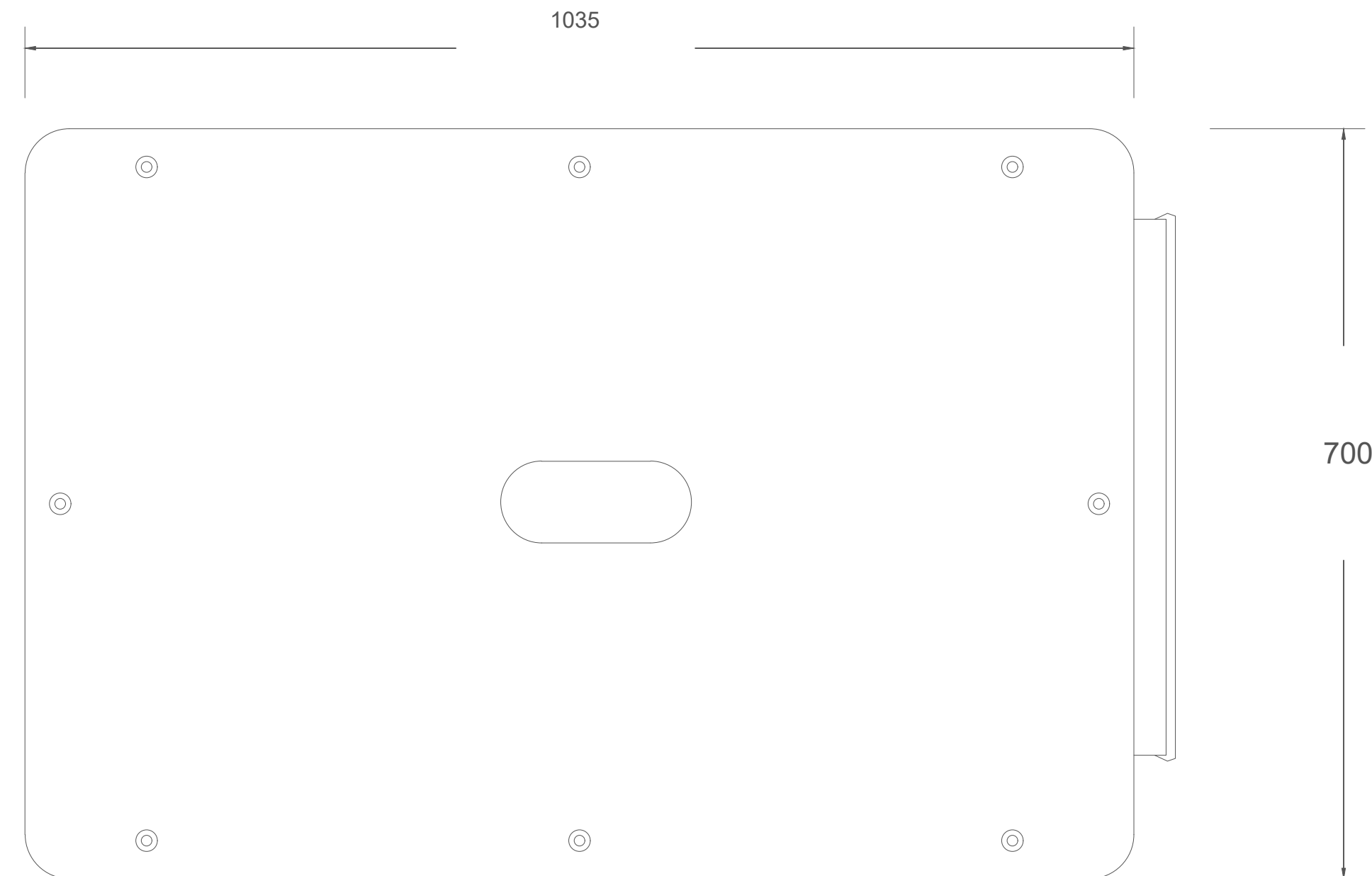
SCALA: 1 : 1000

DATA: MARZO 2022

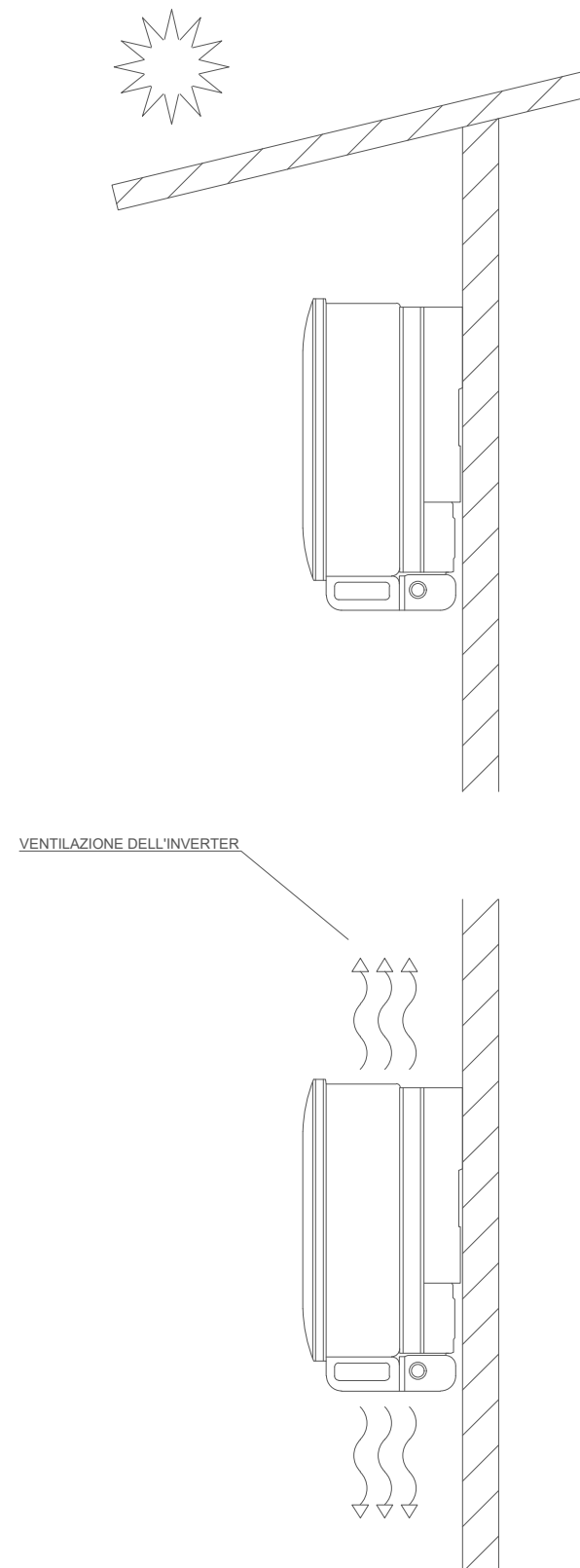
3		Terza emissione			
2		Seconda emissione			
1		Prima emissione	Arch. Chiara Martis	Arch. Valentina Madeddu	Ing. S.Floris

REV.	DATA	DESCRIZIONE	REDATTO	CONTROLLATO	APPROVATO

CODICE COMMESSA	NOME FILE	FASE PROGETTUALE	CATEGORIA	REV.
		<b>PRE</b>	<b>IMPIANTI</b>	<b>00</b>
STUDIO ALCHEMIST: Ing. Stefano Floris Arch. Cinzia Nieddu		PROGETTISTA - TIMBRO E FIRMA		PROGETTISTA - TIMBRO E FIRMA
COLLABORATORI: Arch. Chiara Martis Arch. Valentina Madeddu Arch. Elena Porcu Arch. Luigi Mereu Geol. Mario Strinna Geom. Alberto Barroccu				



INVERTER HUAWEI SUN 2000 185KML - DIMENSIONI scala1:5



POSIZIONAMENTO INVERTER

SUN2000-185KTL-H1  
**Technical Specifications**

Efficiency	
Max. Efficiency	99.03%
European Efficiency	98.69%
Input	
Max. Input Voltage	1,500 V
Max. Current per MPPT	26 A
Max. Short Circuit Current per MPPT	40 A
Start Voltage	550 V
MPPT Operating Voltage Range	500 V ~ 1,500 V
Nominal Input Voltage	1,080 V
Number of Inputs	18
Number of MPP Trackers	9
Output	
Nominal AC Active Power	175,000 W @40°C, 168,000 W @45°C, 150,000 W @50°C
Max. AC Apparent Power	185,000 VA
Max. AC Active Power (cosφ=1)	185,000 W
Nominal Output Voltage	800 V, 3W + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	126.3 A @40°C, 121.3 A @45°C, 108.3 A @50°C
Max. Output Current	134.9 A
Adjustable Power Factor Range	0.8 LG ... 0.8 LD
Max. Total Harmonic Distortion	< 3%
Protection	
Input-side Disconnection Device	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
DC Surge Arrester	Type II
AC Surge Arrester	Type II
DC Insulation Resistance Detection	Yes
Residual Current Monitoring Unit	Yes
Communication	
Display	LED Indicators, Bluetooth/WLAN + APP
USB	Yes
MBUS	Yes
RS485	Yes
General	
Dimensions (W x H x D)	1,035 x 700 x 365 mm (40.7 x 27.6 x 14.4 inch)
Weight (with mounting plate)	84 kg (185.2 lb.)
Operating Temperature Range	-25°C ~ 60°C (-13°F ~ 140°F)
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,000 m (13,123 ft.)
Relative Humidity	0 ~ 100%
DC Connector	Staubli MC4 EVO2
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless
Standard Compliance (more available upon request)	
Certificate	EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 60068, IEC 61683
Grid Code	IEC 61727, P.O. 12.3, RD 1699, RD 661, RD 413, RD 1565, RD 1663, UNE 206007-1, UNE 206006

SCHEDA TECNICA INVERTER HUAWEI SUN 2000 185KML