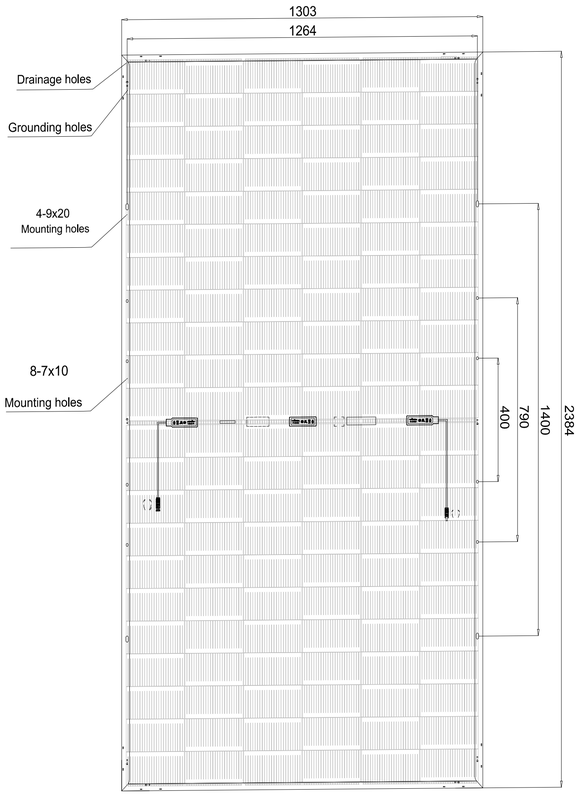
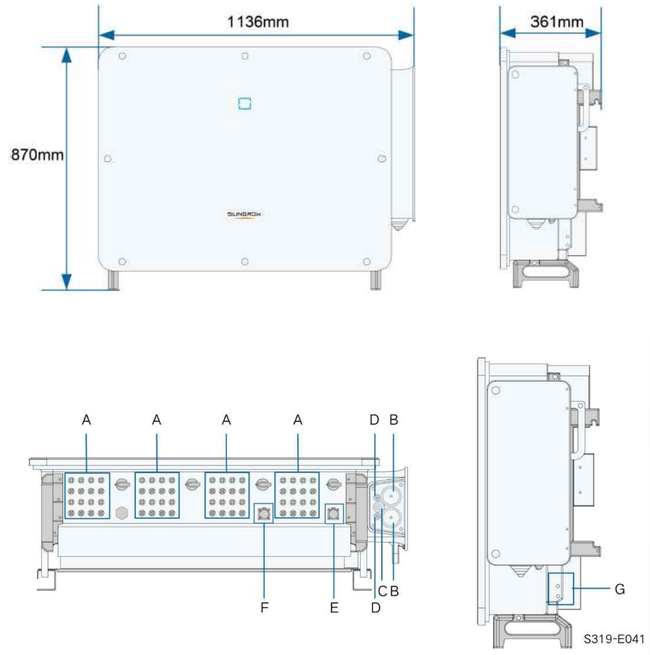
TIPOLOGICI EQUIPMENT DI PROGETTO

TIPOLOGICO MODULO RISEN RSM132-8-680-705BHDG

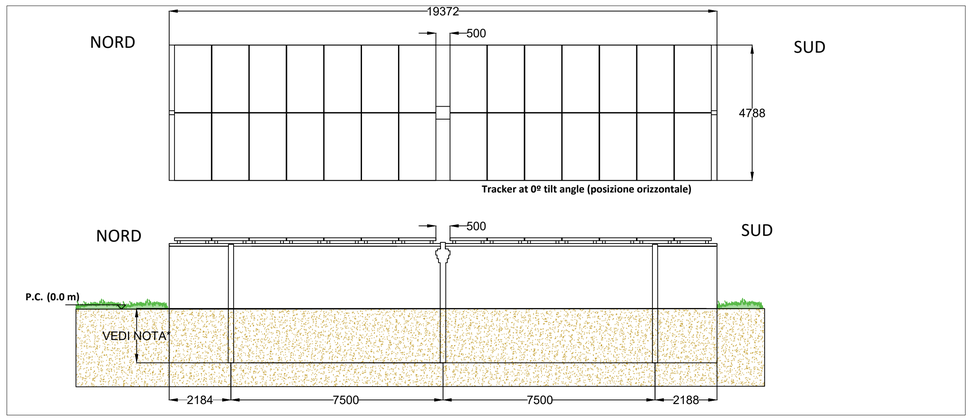


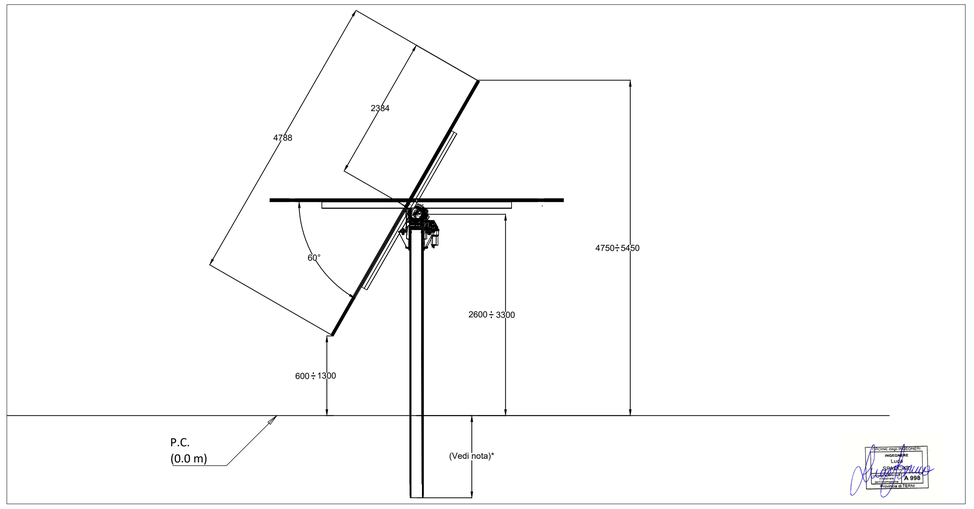
MECHANICAL DATA	
Solar cells	*n*-type HJT
Cell configuration	132 cells (6×11+6×11)
Module dimensions	2384×1303×33mm
Weight	37.5kg
Superstrate	High Transmission, AR Coated Heat Strengthened Glass
Substrate	Heat Strengthened Glass
Frame	Anodized Aluminium Alloy, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm² , Positive(+)350mm, Negative(-)230mm (Connector Included)
Connector	Risen Twinsel PV-SY02, IP68
ELECTRICAL DATA (STC)	
Model Type	RSM132-8-680-705BHDG
Rated Power in Watts-Pmax(Wp)	**700**
Open Circuit Voltage-Voc(V)	49.83
Short Circuit Current-Isc(A)	17.82
Maximum Power Voltage-Vmpp(V)	41.78
Maximum Power Current-Impp(A)	16.77
Module Efficiency (%)	22.5
Electrical characteristics with 10% rear side power gain	
Total Equivalent power -Pmax (Wp)	**770**
Open Circuit Voltage-Voc(V)	49.83
Short Circuit Current-Isc(A)	19.60
Maximum Power Voltage-Vmpp(V)	41.78
Maximum Power Current-Impp(A)	18.44

TIPOLOGICO INVERTER SUNGROW SG350HX



General Data	
Dimensions (W*H*D)	1136*870*361 mm (44.7" * 34.3" * 14.2")
Weight	≤110 kg (≤242.5 lbs)
Isolation method	Transformerless
Ingress protection rating	IP66 (NEMA 4X)
Input (DC)	
Max. PV input voltage	1500 V
Min. PV input voltage / Startup input voltage	500 V - 550 V
Nominal PV input voltage	1080 V
MPP voltage range	500 V - 1500 V
MPP voltage range for nominal power	860 V – 1300 V
No. of independent MPP inputs	12 (Optional: 14 / 16)
Max. number of input connector per MPPT	2
Max. PV input current	12 * 40 A (Optional: 14 * 30 A / 16 * 30 A)
Max. DC short-circuit current per MPPT	60 A
Output (AC)	
AC output power	352 kVA @ 30 ℃ / 320 kVA @40 ℃ / 295 kVA @50 ℃
Max. AC output current	254 A
Nominal AC voltage	3 / PE, 800 V
AC voltage range	640 – 920 V
Nominal grid f requency / Grid f requency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % In
Power factor at nominal power / Ajustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3/3
Efficiency	
Max. efficiency / European efficiency / CEC	99.01 % / 98.8 % / 98.5 %





General specifications

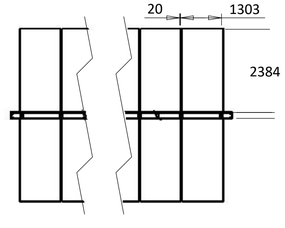
Tracker	Independent-row. horizontal single-axis
Maximum length	70 m
Maximum width	5 m
Module configuration	2 modules in portrait
Rotational range	E-O: +/- 60º
Motor per MWp	Depending on the size, the type of the module and the number of modules per string, 3 motors per row. (Maximum 70 meters lenght)
Ground cover ratio	30-50%
Modules supported	All market available modules
Slope tolerance	N-S: up to 23.5% every 20 m E-W: unlimited
Module attachment	By bolts and nuts, rivet or clamps for frameless modules
Allowable wind load	Tailored to site specific condition
Wind alarm	Controlled by ultrasonic anemometer
Prepared for XXL modules	

TIPOLOGICO

TRACKER

PVH MONOLINE+ 2P

Spaziatura tra i moduli



REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
00	15/12/2023	EMISSIONE	A.Gernone	A. Fata	L.Spaccino

CONTRACTOR'S LOGO

PROJECT:
Progetto di un impianto agrivoltaico denominato "Masala", di potenza pari a 48,76 MWp, e delle relative opere di connessione.
Da realizzarsi nei comuni di Ploaghe (SS) e Codrongianos (SS).

FILE NAME: LS16943.ENG.TAV.020.00_TIPOLOGICI EQUIPMENT DI PROGETTO.DWG

CLIENT'S LOGO

lightsource bp

CLIENT VALIDATION

APPROVED BY

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:
Company	A1	VARIE	1:1	1 di / of 1

TITLE: **Tipologici equipment di progetto**

UTILIZATION SCOPE:	CLIENT CODE				
	PLANT	GROUP	DOC	PROGRESSIVE	REVISION
Basic Design	LS16943	ENG	TAV	020	00