

Moduli Fotovoltaici
installazione su falda inclinata
Potenza modulo 450 Wp - n°24 moduli
Potenza di picco Totale 10.80 kWp

X3-Hybrid HV (THREE PHASE)				
X3-Hybrid-5.0T	X3-Hybrid-6.0T	X3-Hybrid-8.0T	X3-Hybrid-10.0T	
6000	8000	10000	12000	
3000	4000	1000	2000	
720	720	720	720	
1125	1125	1125	1915	
1404	1404	1404	2504	
230-800	280-800	370-800	330-800	
1	2	1	2	
1	2	1	2.5	
5000	6000	8000	10000	
5000	6000	8000	10000	
400360 to 4400	400560 to 4400	400560 to 4448	400560 to 4448	
50/80	50/80	50/80	50/80	
7.6	9	12.2	15	
8.5	10	13.5	16	
0.8 leading - 0.8 lagging				
+2				
Yes (optional)				
Yes				
200	240	320	400	
8000	8000	10000	10000	
CAN/SAFES				
No				
500	6000	8000	10000	
400/360, 50/80	400/360, 50/80	400/360, 50/80	400/360, 50/80	
7.6	9	12.2	15	
10000.60	12000.60	36000.60	16000.60	
+0.5				
+2				
Yes				
99.90	99.90	99.90	99.90	
97.00	97.00	97.00	97.00	
97.60	97.60	97.60	97.60	
96.00	96.00	96.00	96.00	
-7				
YES				
EBC 0309-1-2 / IEC 60064-4 A23000				
EN60060-6-1/EN60060-6-2/EN60060-6-3				
VDE012-1.14.2012 VDE-AR-N4325EN-634577/EN634577-2/EN634577-3/EN634577-4/EN634577-5/EN634577-6/EN634577-7/EN634577-8/EN634577-9/EN634577-10/EN634577-11/EN634577-12/EN634577-13/EN634577-14/EN634577-15/EN634577-16/EN634577-17/EN634577-18/EN634577-19/EN634577-20/EN634577-21/EN634577-22/EN634577-23/EN634577-24/EN634577-25/EN634577-26/EN634577-27/EN634577-28/EN634577-29/EN634577-30/EN634577-31/EN634577-32/EN634577-33/EN634577-34/EN634577-35/EN634577-36/EN634577-37/EN634577-38/EN634577-39/EN634577-40/EN634577-41/EN634577-42/EN634577-43/EN634577-44/EN634577-45/EN634577-46/EN634577-47/EN634577-48/EN634577-49/EN634577-50/EN634577-51/EN634577-52/EN634577-53/EN634577-54/EN634577-55/EN634577-56/EN634577-57/EN634577-58/EN634577-59/EN634577-60/EN634577-61/EN634577-62/EN634577-63/EN634577-64/EN634577-65/EN634577-66/EN634577-67/EN634577-68/EN634577-69/EN634577-70/EN634577-71/EN634577-72/EN634577-73/EN634577-74/EN634577-75/EN634577-76/EN634577-77/EN634577-78/EN634577-79/EN634577-80/EN634577-81/EN634577-82/EN634577-83/EN634577-84/EN634577-85/EN634577-86/EN634577-87/EN634577-88/EN634577-89/EN634577-90/EN634577-91/EN634577-92/EN634577-93/EN634577-94/EN634577-95/EN634577-96/EN634577-97/EN634577-98/EN634577-99/EN634577-100/EN634577-101/EN634577-102/EN634577-103/EN634577-104/EN634577-105/EN634577-106/EN634577-107/EN634577-108/EN634577-109/EN634577-110/EN634577-111/EN634577-112/EN634577-113/EN634577-114/EN634577-115/EN634577-116/EN634577-117/EN634577-118/EN634577-119/EN634577-120/EN634577-121/EN634577-122/EN634577-123/EN634577-124/EN634577-125/EN634577-126/EN634577-127/EN634577-128/EN634577-129/EN634577-130/EN634577-131/EN634577-132/EN634577-133/EN634577-134/EN634577-135/EN634577-136/EN634577-137/EN634577-138/EN634577-139/EN634577-140/EN634577-141/EN634577-142/EN634577-143/EN634577-144/EN634577-145/EN634577-146/EN634577-147/EN634577-148/EN634577-149/EN634577-150/EN634577-151/EN634577-152/EN634577-153/EN634577-154/EN634577-155/EN634577-156/EN634577-157/EN634577-158/EN634577-159/EN634577-160/EN634577-161/EN634577-162/EN634577-163/EN634577-164/EN634577-165/EN634577-166/EN634577-167/EN634577-168/EN634577-169/EN634577-170/EN634577-171/EN634577-172/EN634577-173/EN634577-174/EN634577-175/EN634577-176/EN634577-177/EN634577-178/EN634577-179/EN634577-180/EN634577-181/EN634577-182/EN634577-183/EN634577-184/EN634577-185/EN634577-186/EN634577-187/EN634577-188/EN634577-189/EN634577-190/EN634577-191/EN634577-192/EN634577-193/EN634577-194/EN634577-195/EN634577-196/EN634577-197/EN634577-198/EN634577-199/EN634577-200/EN634577-201/EN634577-202/EN634577-203/EN634577-204/EN634577-205/EN634577-206/EN634577-207/EN634577-208/				

Celle	6 x 12
Tipo delle celle	Monocristallino/N-type
Misura delle celle	161,7 x 161,7 mm
Barre collettrici delle celle	12
Dimensioni (L x P x H)	2.054 x 1.024 x 40 mm
Massimo carico	5.400Pa
Peso	4.300Pa
Tipo di connettore	MC4/MC
Scatola di giunzione	IP68 con 3 diodi di bypass
Cavo di connessione (L)	2 x 1.200 mm
Copertura frontale	Vetro temprato ad alta trasmittanza
Telaio	Alluminio anodizzato

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Certificazioni	IEC 61215-1/-1-1 / 2-20161), IEC 61730-1/-2-20161), IEC 62716:2013 ¹ (test ammoniacale) IEC 61701:2012 Severity 6 ¹ (test corrosione nebbia salina)
	ISO 9001, ISO 14001, ISO 50001
Resistenza del modulo al fuoco	Class C, Fire Class 1 (Italia)
Garanzia sul prodotto	25 anni
Garanzia sulla resa di P _{max} (tolleranza metrologica ± 3%)	25 anni garanzia lineare ¹

The diagram illustrates the structure of a thin-film solar cell. It shows a cross-section with several layers: a top 'Glass' layer, a 'TiO₂/ZnO' layer, and a 'Backsheet transparente' layer. Red arrows represent incident light rays. Some rays are reflected off the glass surface, while others pass through the layers and are absorbed by the active layer, indicated by red lightning bolt symbols. A sun icon in the top right corner represents the light source.

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**Colonnina Veicoli
Elettrici V2G**

Passaggio sotto copertura, verso piani sottostanti attraverso carotatura sul solaio di copertura, passaggio entro canalina nel vano adibito a Ufficio Sindaco, carotatura del pavimento piano terra sala Vigili, termine piano seminterrato

Moduli Fotovoltaici
installazione sù falda inclinata
Potenza modulo 450 Wp - n°24 moduli
Potenza di picco Totale 10,80 kWp

Architectural floor plan of a house with a garage and a pool. The plan includes the following dimensions and features:

- Overall Dimensions:**
 - Top section: 19.00' (width), 9.33' (height)
 - Bottom section: 2.40' (width), 4.00' (height)
 - Right side: 9.63' (height)
- Rooms and Features:**
 - Garage:** Located at the top, with a width of 2.40'.
 - Living Area:** Features a fireplace (FIREPLACE) and a large open space.
 - Kitchen:** Includes a breakfast bar (BREAKFAST BAR), a sink (SINK), and a stove (STOVE).
 - Dining Area:** Adjacent to the kitchen, featuring a dining table (DINING TABLE) and chairs.
 - Pool:** Located at the bottom right, with a width of 2.40' and a depth of 4.00'.
 - Other Features:** A patio (PATIO) area, a deck (DECK), and a pool house (POOL HOUSE) with a door (DOOR) and a window (WINDOW).
- Dimensions and Measurements:**
 - Top section: 19.00' (width), 9.33' (height)
 - Bottom section: 2.40' (width), 4.00' (height)
 - Right side: 9.63' (height)
 - Living area: 14.00' (width), 14.00' (height)
 - Kitchen: 10.00' (width), 10.00' (height)
 - Dining area: 10.00' (width), 10.00' (height)
 - Pool: 2.40' (width), 4.00' (height)
 - Pool house: 2.40' (width), 4.00' (height)

linea elettrica dalla sala inverter al quadro di scambio
cavo entro canala in PVC
cavo 3*16 mmq + N

	INGREVE® FUSION Sheet				INGREVE® FUSION W all			
Ingressi e uscite AC								
Tensione in ingresso AC	Monofase 230V				Tensione 230V			
Tensione in ingresso AC	300 V				300 V			
Tensione in ingresso AC	2000 V (UL)				2000 V (UL)			
Alimentazione massima in ingresso	14,4 kVA				14,4 kVA			
Alimentazione massima in ingresso	(7,4 kW @ 230V)				(22 kW @ 230V)			
Alimentazione massima in ingresso	64 (4 x 20 x 8 x 20)				64 (4 x 20 x 8 x 20)			
Alimentazione massima in ingresso	14,4 kVA				14,4 kVA			
Alimentazione massima in ingresso	(7,4 kW @ 230V)				(22 kW @ 230V)			
Modalità di collegamento	Configurati tipo 1 e tipo 2				Configurati tipo 1 e tipo 2			
Modalità di collegamento	5 fasi in parallelo + 7 fasi in serie				5 fasi in parallelo + 7 fasi in serie			
Normative e sicurezza								
Normativa CE	CE-EMC14, CE-EMC15, CE-EMC16				CE-EMC14, CE-EMC15, CE-EMC16			
Sicurezza di contatto	Interruttore magnetotermico a innescamento				Interruttore magnetotermico a innescamento			
Cortocircuito	Interruttore Differenziale 300 mA I _{Δn} / Rivelatore di guasto a 100 mA I _{Δn}				Interruttore magnetotermico a innescamento			
Protezione (di accessori)								
Protezione	COP (Circuit Breaker)				COP (Circuit Breaker)			
Protezione di comunicazione	DIN 43437 T1 e DIN 43437 T2				DIN 43437 T1 e DIN 43437 T2			
Informazioni generali								
Consumo in modalità stand-by	<10W				<10W			
Minimizzazione dell'energia	2 x mini-termostati MP400				2 x mini-termostati MP400			
Temperatura controller	da -25°C a 50°C				da -25°C a 50°C			
Protezione	IP65				IP65			
Protezione	33 kV a 24 T fino a 33 kV a 24 T fino a 24 kV a 24 T fino a 24 kV a 24 T fino a				33 kV a 24 T fino a 33 kV a 24 T fino a 24 kV a 24 T fino a 24 kV a 24 T fino a			
Protezione	3000 x 3000 x 225 mm				3000 x 3000 x 225 mm			
Protezione	IP65				IP65			
Protezione	IP65				IP65			
Protezione	IP65				IP65			
Protezione	IP65				IP65			
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Protezione	IP65				IP65			
Protezione	IP65				IP65			
Protezione	IP65				IP65			
Protezione	IP65				IP65			
Protezione								

ZONA DI POSIZIONAMENTO NUOVO KIT FOTOVOLTAICO
composto da:
N°2 INVERTER IBRIDO TIPO X3-Hybrid-10.0T DA 7000 W
N°14 BATTERIE TIPO H48050A DA 2.4 kWh/CAD
BMS TIPO HV PYLONTECH SC0500A
KIT ARMADIO TIPO 33U HV

**Alimentazione nuova colonnina di ricarica autoveicoli
tipo V2G - alimentazione da quadro elettrico esistente
passaggio della linea elettrica entro canale a vista
tipo PVC omologato
cavo 3*35 mmq + N**

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OGGETTO: POR FESR SARDEGNA 2014/2020 ASSE PRIORITARIO IV "ENERGIA SOSTENIBILE E QUALITÀ DELLA VITA" AZIONI 4.1.1 E 4.3.1 BANDO PER "INTERVENTI DI EFFICIENTAMENTO ENERGETICO NEGLI EDIFICI PUBBLICI E DI REALIZZAZIONE DI MICRO RETI NELLE STRUTTURE PUBBLICHE NELLA REGIONE SARDEGNA". ATTUAZIONE DELLA D.G.R. N. 467 DEL 10.08.2016. CUP: C77J1800310008 "REALIZZAZIONE CON INTERVENTI DI EFFICIENTAMENTO ENERGETICO DEL MUNICIPIO".

MITTENTE: Comune di Tissi

OGGETTISTI: Ing. Giordano Fadda, Ing. Massimiliano Cug
Ing. Francesco Columbu, Arch. Gian Luca C

RUP: Geom. Sandra Manca

AVOLA
G.09

ELABORATO
Planimetria generale
posizionamento impianto
produzione fotovoltaica

Rev.	Scala	Data
02		30/01/2020

Ing. Giordano Fadda (per IRT)
viale Trieste, n°
San Gavino Monreale (SS)
Tel: 070 856 59
e-mail: fadda@irtpro.it

Ing. Giordano Fadda (per l'RT)
viale Trieste, n°
San Gavino Monreale (SS)
Tel: 070 856 59
e-mail: fadda@unimil.it