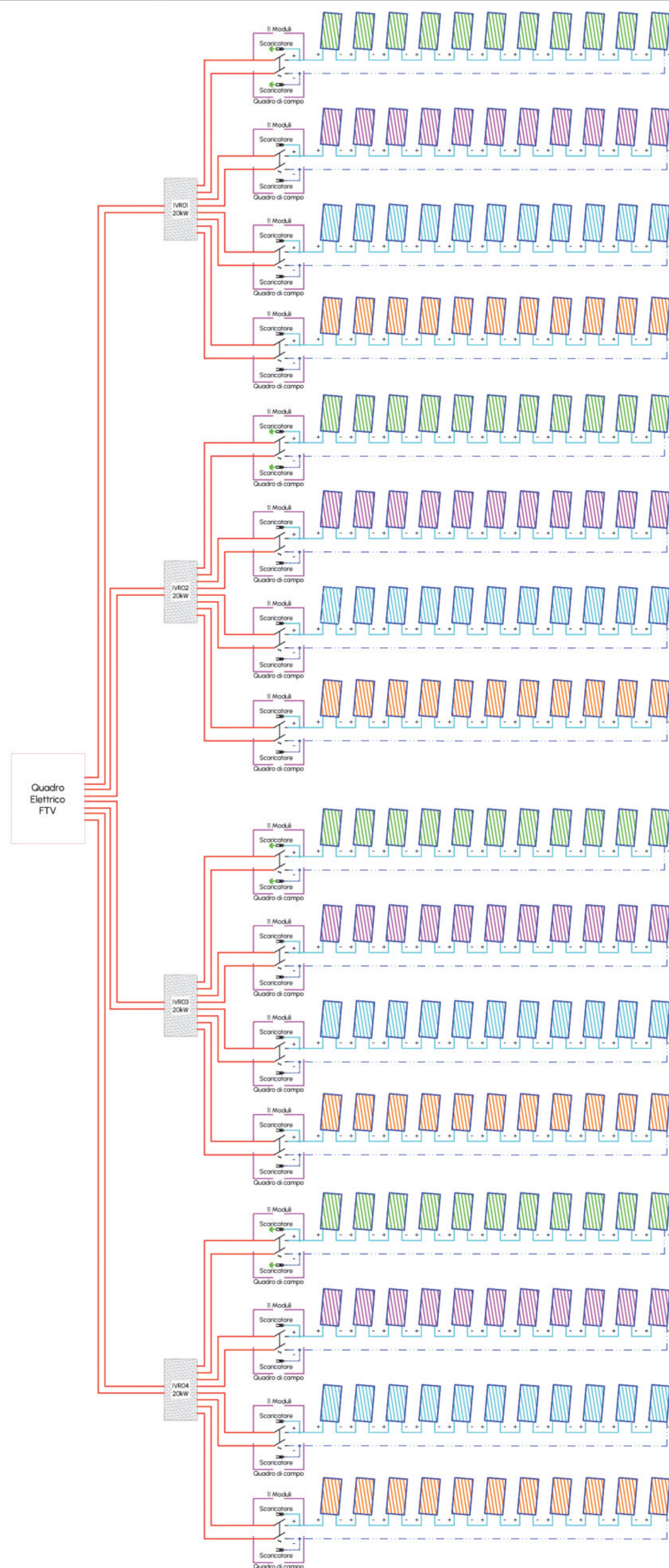
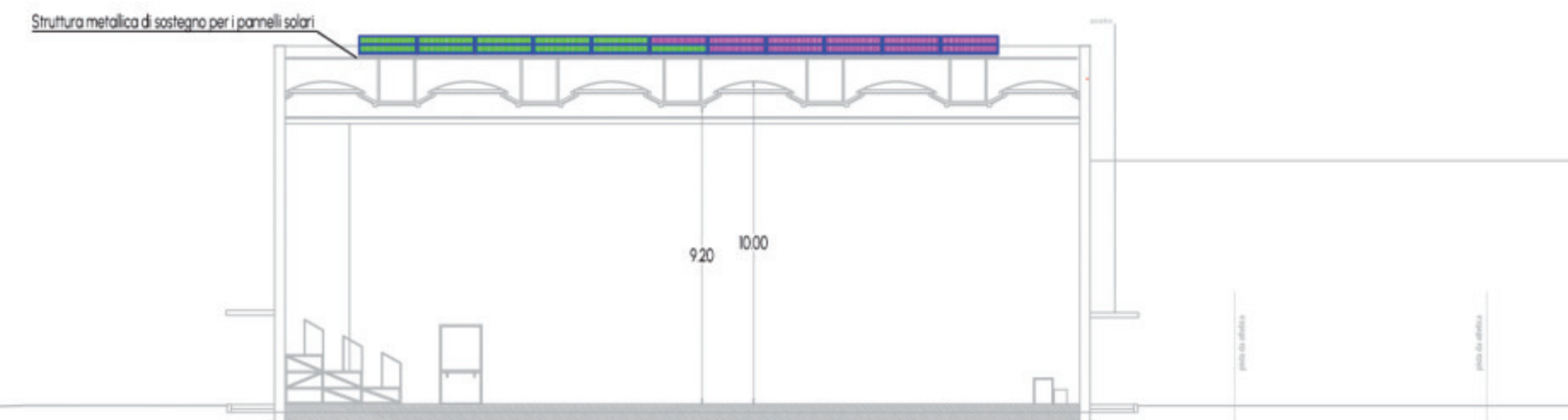
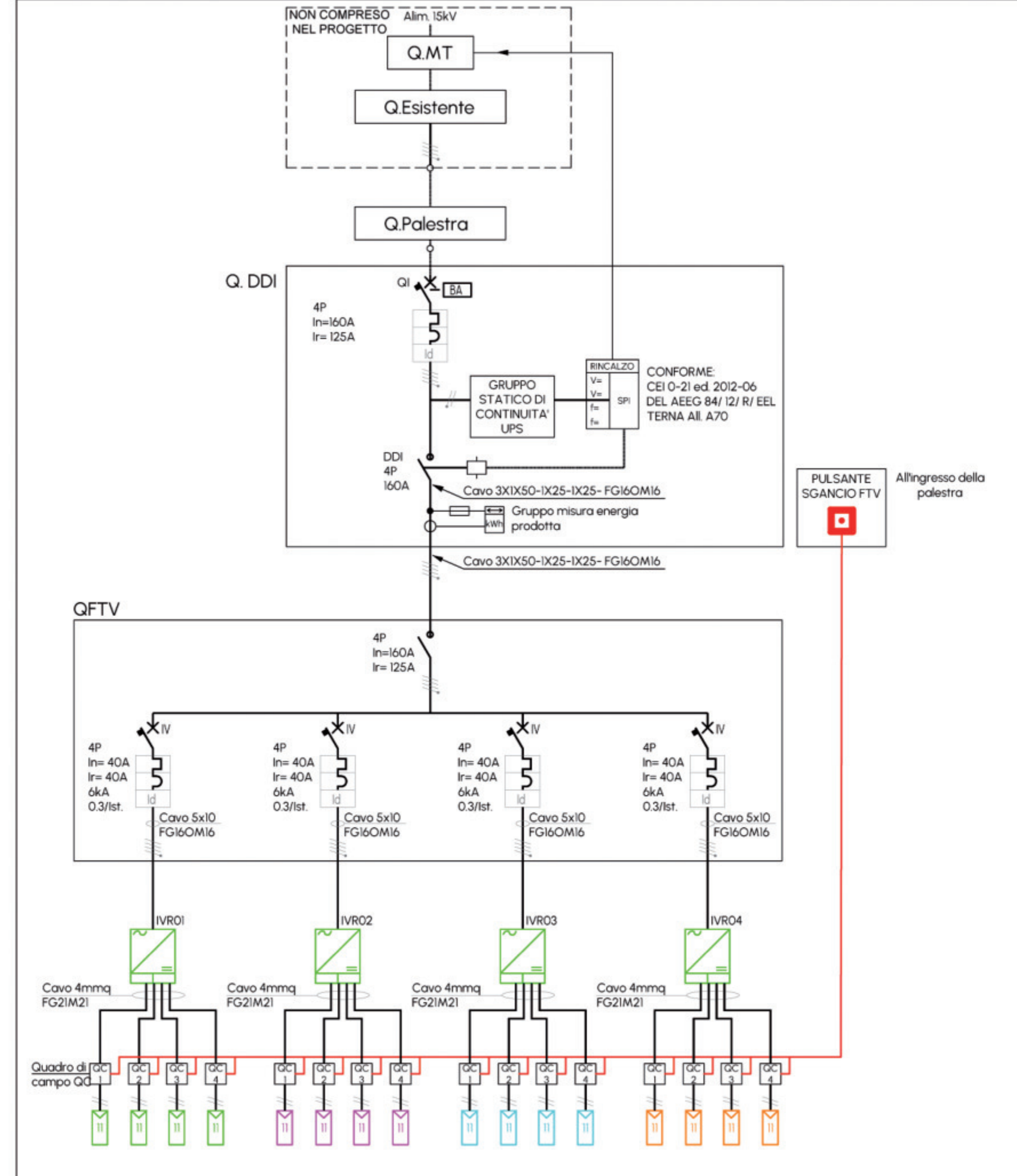


## Schema di collegamento del campo fotovoltaico da 73kWp

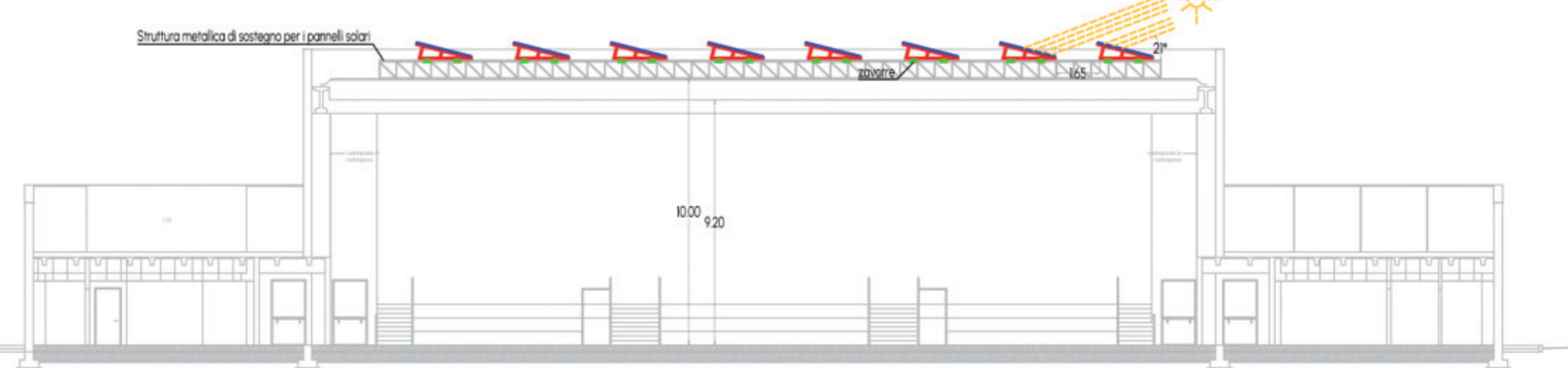


## Schema unifilare impianto fotovoltaico da 73kWp



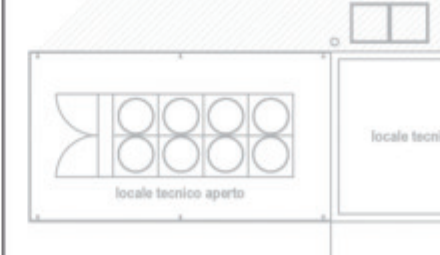
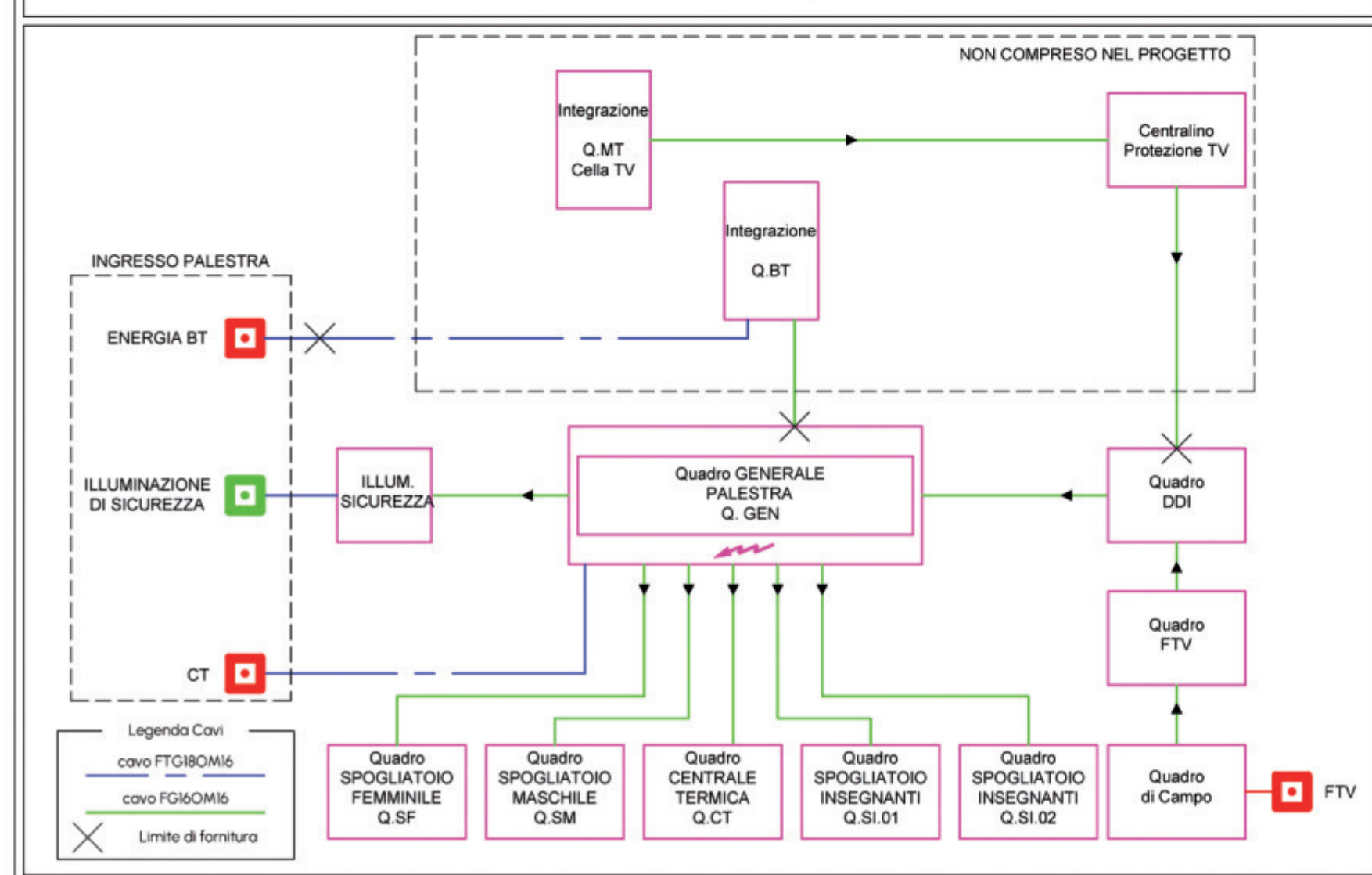
Sezione AA - scala 1:200

## SEZIONE DD



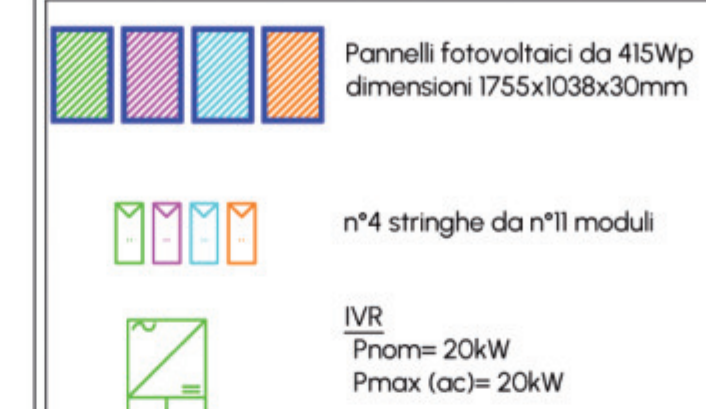
Sezione DD - scala 1:200

## Schema a blocchi impianto elettrico

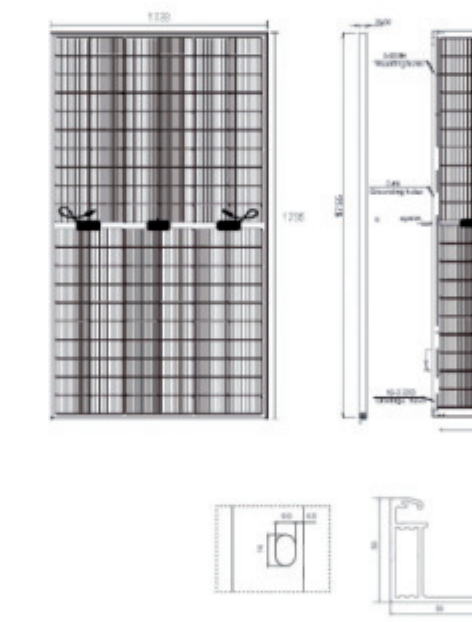


Pianta copertura - scala 1:200

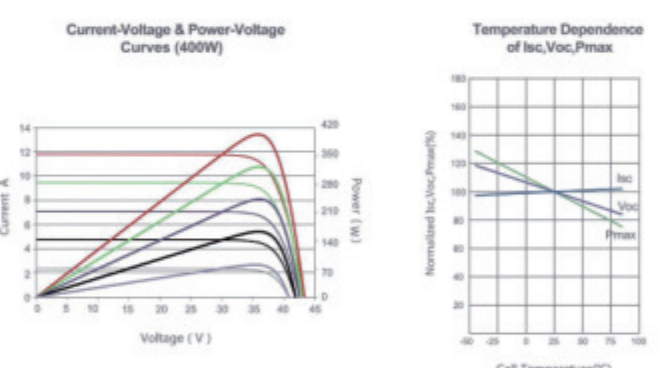
## Legenda



## ENGINEERING DRAWINGS



## ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



## MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline (166mmx83mm)
No. of Cells	120 (6x20)
Dimensions	1755x1038x30mm
Weight	23.5kg
Front Glass	2.0 mm, AR Coating, High Transmission, Low Iron, Tempered Glass
Back Glass	2.0 mm, AR Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy (Silver/Black optional)
Junction Box	IP68 Rated
Output Cables	TUV 1x4.0mm² / UL 12AWG, Length:100mm

## PACKAGING CONFIGURATION

Standard packaging (pallet)	72 pcs
Module quantity per 20' container	432 pcs
Module quantity per 40' container	936 pcs

## SPECIFICATIONS

Module Type	TKA405M-120	TKA405M-120	TKA405M-120	TKA405M-120	TKA405M-120	TKA405M-120	TKA405M-120
STC	STC	STC	STC	STC	STC	STC	STC
Maximum Power (Pmax)	400Wp	288Wp	400Wp	288Wp	400Wp	288Wp	400Wp
Maximum Power Voltage (Vmp)	34.7V	31.8V	34.7V	31.8V	34.7V	31.8V	34.7V
Maximum Power Current (Imp)	11.53A	9.04A	11.53A	9.04A	11.53A	9.04A	11.53A
Open-circuit Voltage (Voc)	41.00V	38.26V	41.00V	38.26V	41.00V	38.26V	41.00V
Short-circuit Current (Isc)	12.33A	9.48A	12.33A	9.48A	12.33A	9.48A	12.33A
Module Efficiency (%)	22.02%	22.23%	22.51%	22.78%	23.06%	23.33%	23.60%
Voc and Isc tolerance				±3%			
Operating Temperature(°C)				-40°C~+55°C			
Maximum system voltage				1500V			
Maximum series fuse rating				20A			
Temperature coefficients of Pmax				-0.25%/°C			
Temperature coefficients of Voc				-0.24%/°C			
Temperature coefficients of Isc				0.04%/°C			
Nominal operating cell temperature (NOCT)				45±2 °C			

## Provincia di Brescia

Settore EDILIZIA SCOLASTICA E DIREZIONALE - UFFICIO ENERGIA  
Ufficio Progettazione Edilizia Scolastica e Direzione dei Lavori

Edificio scolastico:  
**I.I.S. "PASCAL-MAZZOLARI"**

Ubicazione:  
**Comune di MANERBIO, via Solferino n. 92**

Intervento:  
**REALIZZAZIONE NUOVA PALESTRA**

Finanziato dall'Unione europea  
NextGenerationEU

Oggetto:  
**Progetto impianto elettrico  
Impianto fotovoltaico da 73 kWp**

Scala: Numero: Fase/Pratica Edilizia:  
**EL.10**

Il Direttore del Settore Edilizia Scolastica e Direzionale - Ufficio Energia:

**Dott. Arch. Giovan Maria Mazzoli**

R.U.P.: <b>Dott. Arch. Giovanni Maria Mazzoli</b>	Progettista: <b>Dott. Arch. Antonio Rubagotti</b>	Direttore Lavori:
Collaboratori: Arch. Valeria Boschi Arch. Erika Frosi Geom. Roberto Fiore Matteo Rizzi Rachele Albogheretti STI srl - Concesio (Bs) Ing. Cesare Trebeschi	Progettista Strutture:	Coordinatore Sicurezza:
Nome File:	Redatto da:	Verificato da:
Data: <b>agosto 2023</b>	Data e Numero Revisione:	



PROVINCIA DI BRESCIA

PROGETTO DEFINITIVO-ESECUTIVO