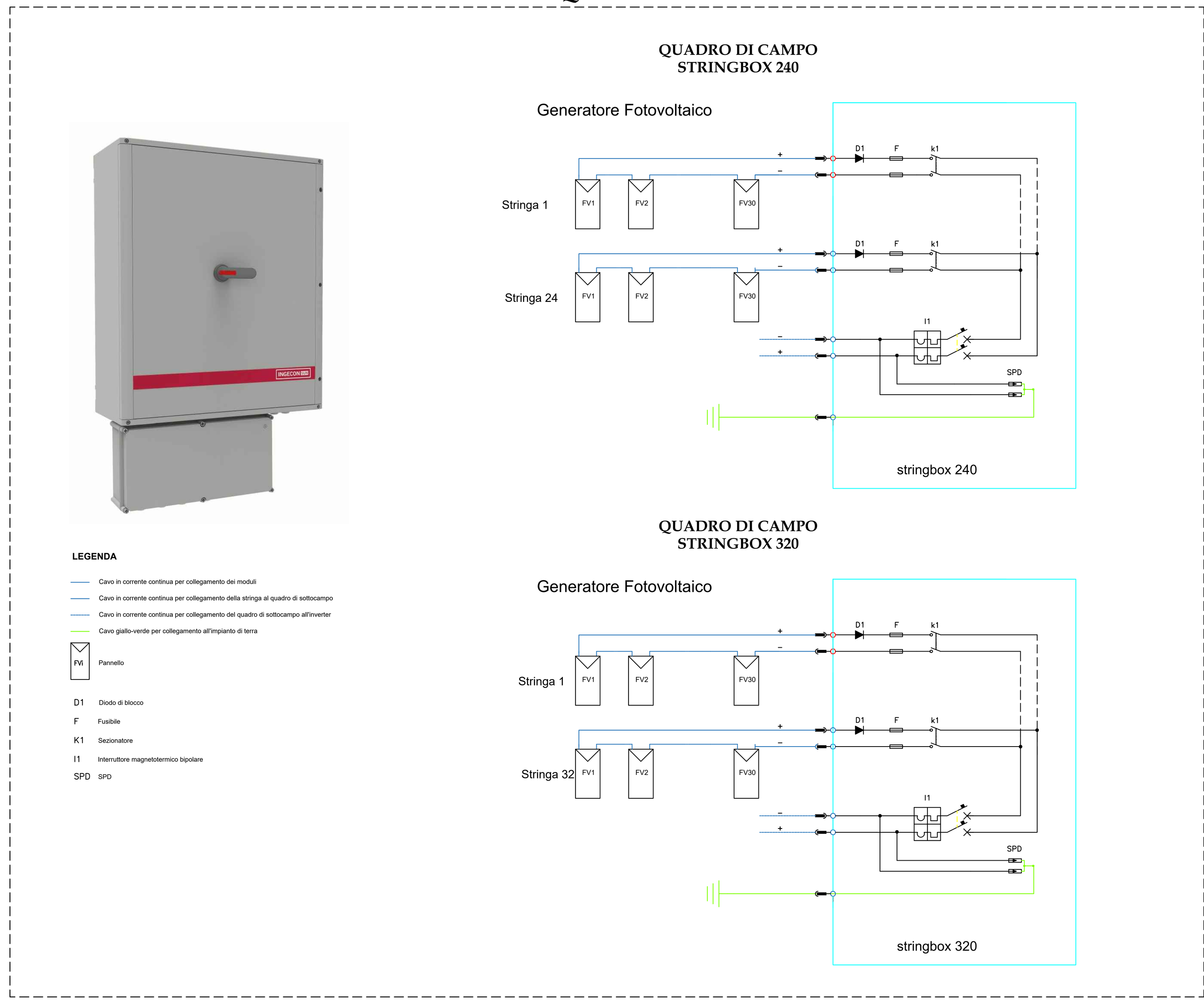
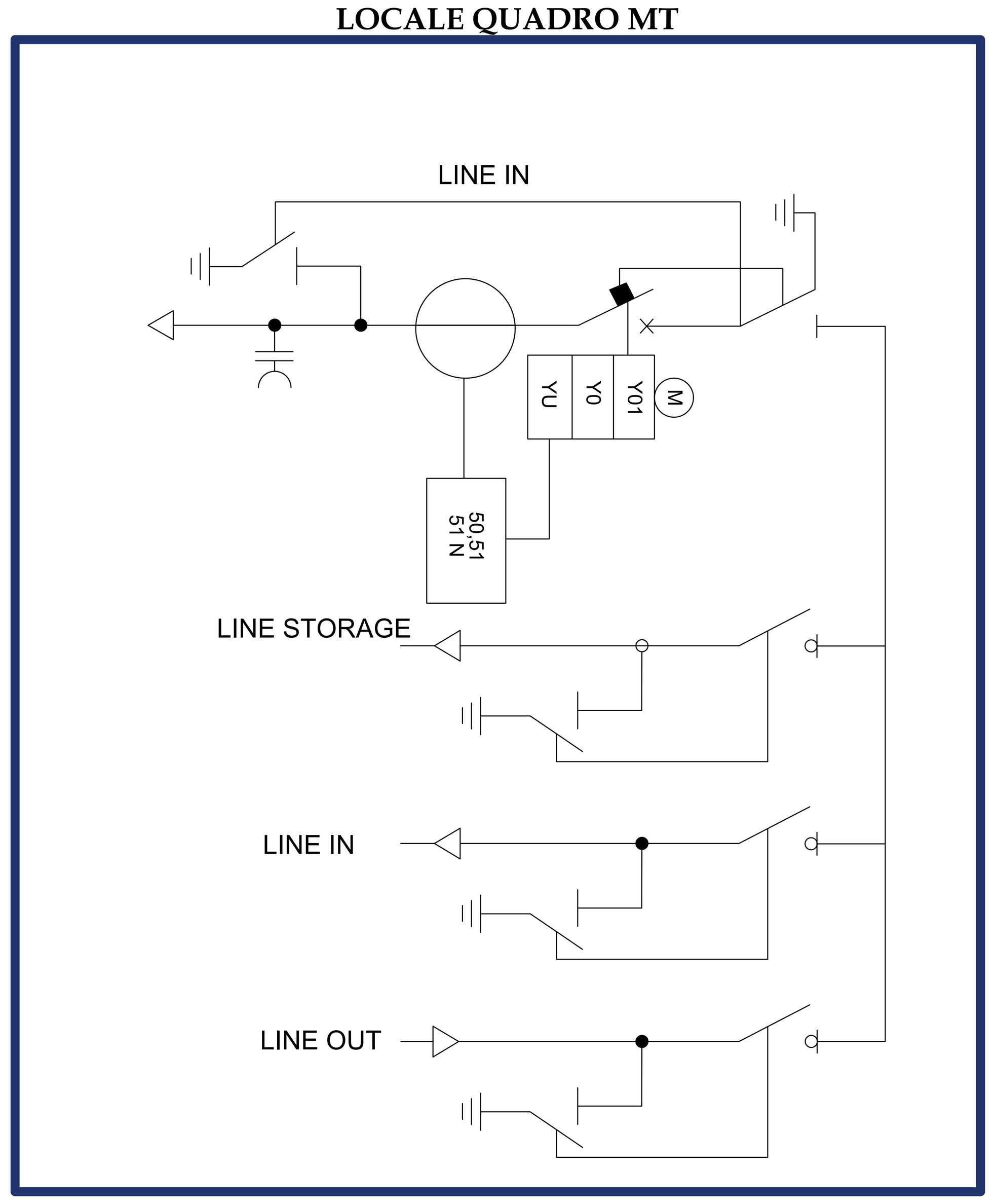
TIPOLOGIA QUADRI DI CAMPO



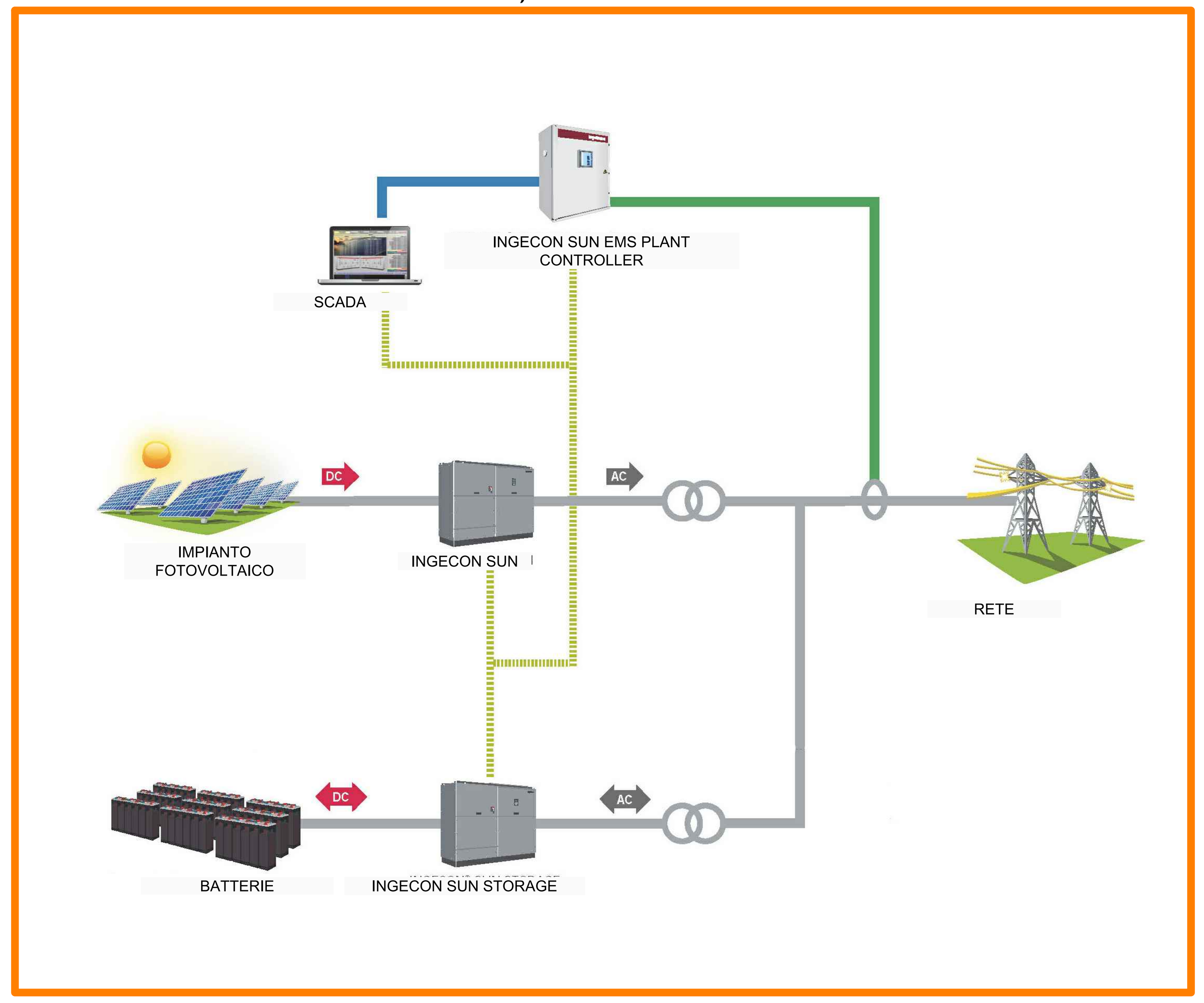
LOCALE QUADRO MT



BATTERIE

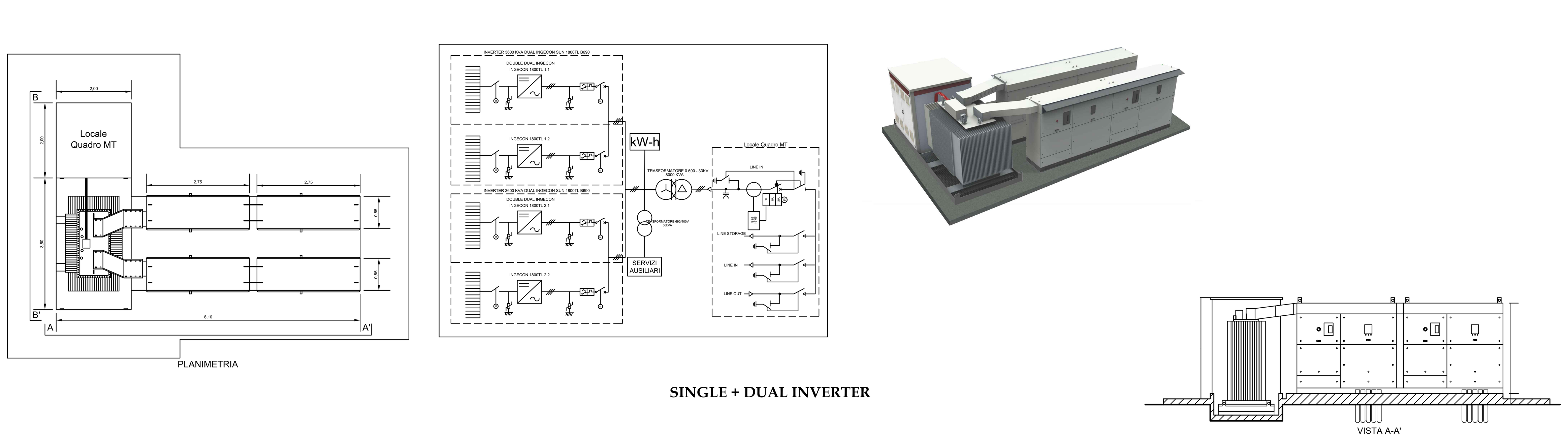
SYSTEM SPECIFICATIONS		PV INTERFACE	
RATED AC POWER (25°C / 50° C	Up to 3,3 MVA/3,0 MVA	Max DC Voltage Open circuit	1500 Vdc
GRID VOLTAGE	11 Kv, 13,8 Kv, 34.5 Kv (OTHER OPTIONS AVAILABLE)	MPPT Min DC Voltage	849Vdc
GRID FEQUENCY	50 HZ / 60 HZ	PV Inputs	Up to 36
REACTIVE POWER	FOUR-QUADRANT CONTROL, 0,9 LEADING TO 0,9 LAGGING AT RATED POWER	Max PV Short Circuit Current	≥8kA
INVERTER EFFICIENCY	98,5 %	**BATTERY SPECIFICATIONS**	
OPERATING TEMPERATURE	-20°C to 50°C	BATTERY BLOCK POWER	500Kw
ALTITUDE	De-rated over 2,000 meters	NUMBER OF BATTERY BLOCKS	Up to 6
SEISMIC RATING	Tested to Zone 4	BATTERY DURATION	2+ hours
DESIGN LIFETIME	Up to 25 years with battery augmentation, usage dependent	ROUND TRIP EFFICIENCY (DC/DC)	Varies by configuration
OPERATIONAL CAPABILITIES	Dispatchable PV, Ramp Rate limiting, Frequency regulation, primary frequency responce, Automatic Voltage regulation, Contingency Responce	ENCLOSURE DIMENSIONS	Standard ISO container or customized to project requirements
SYSTEM RESPONSE TIME	Max capacity change in <1 second	COOLING	Air to air DX
CONTROL & MONITORING	Controls include HMI, SCADA, Data Historian, Application Agents, and Patented Performance Algorithms	FIRE SUPPRESSION	Non aqueous (i,e, inert gas or aerosol)
EXTERNAL CONTROL INTERFACE	SCADA and EMS integration available via common protocols including DNP3	BATTERY MONITORING	Including state of change, state of heath, max/min cell voltage, max/min cell temperature, power limits, current limits, component failures, ground fault
STANDARDS COMPLIANCE	**NEC, UL1741, RULE 21, other common grid codes, IEEE519, UL1973, UL1642**	BATTERY CHEMISTRY	Advanced lithium ion sealed cells or similar

SCHEMA DI BLOCCO
CABINA INVERTER, TRASFORMAZIONE E STORAGE

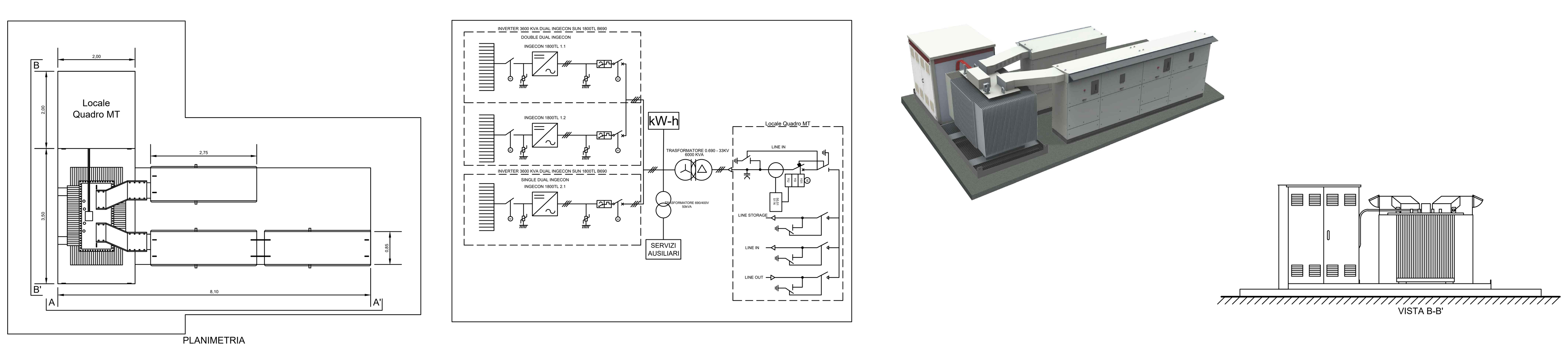


CONFIGURAZIONE INGECON SUN

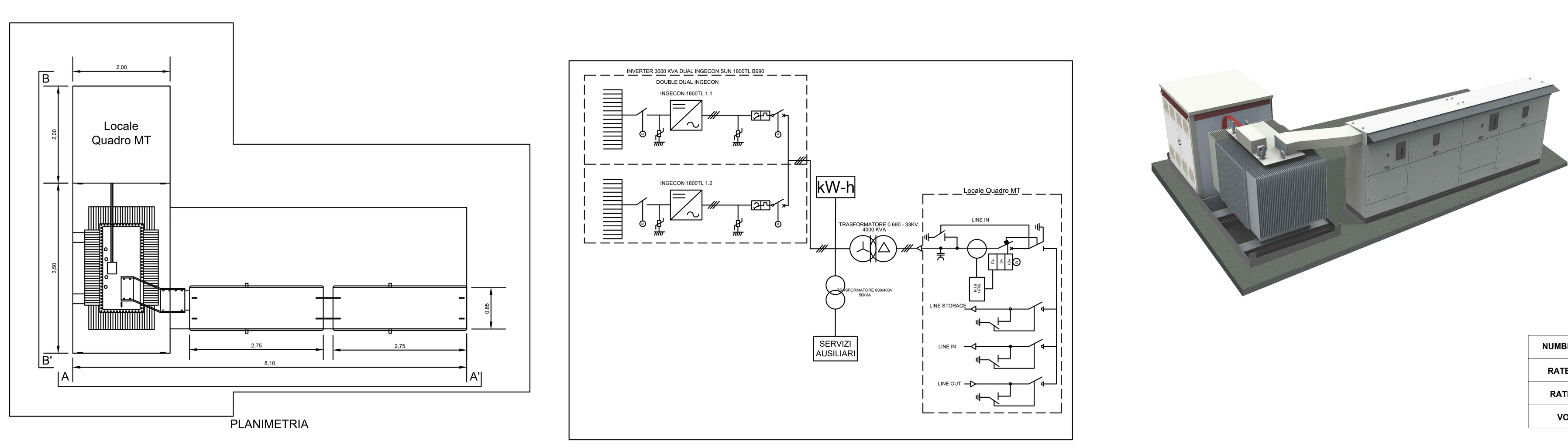
DOUBLE + DUAL INVERTER



SINGLE + DUAL INVERTER

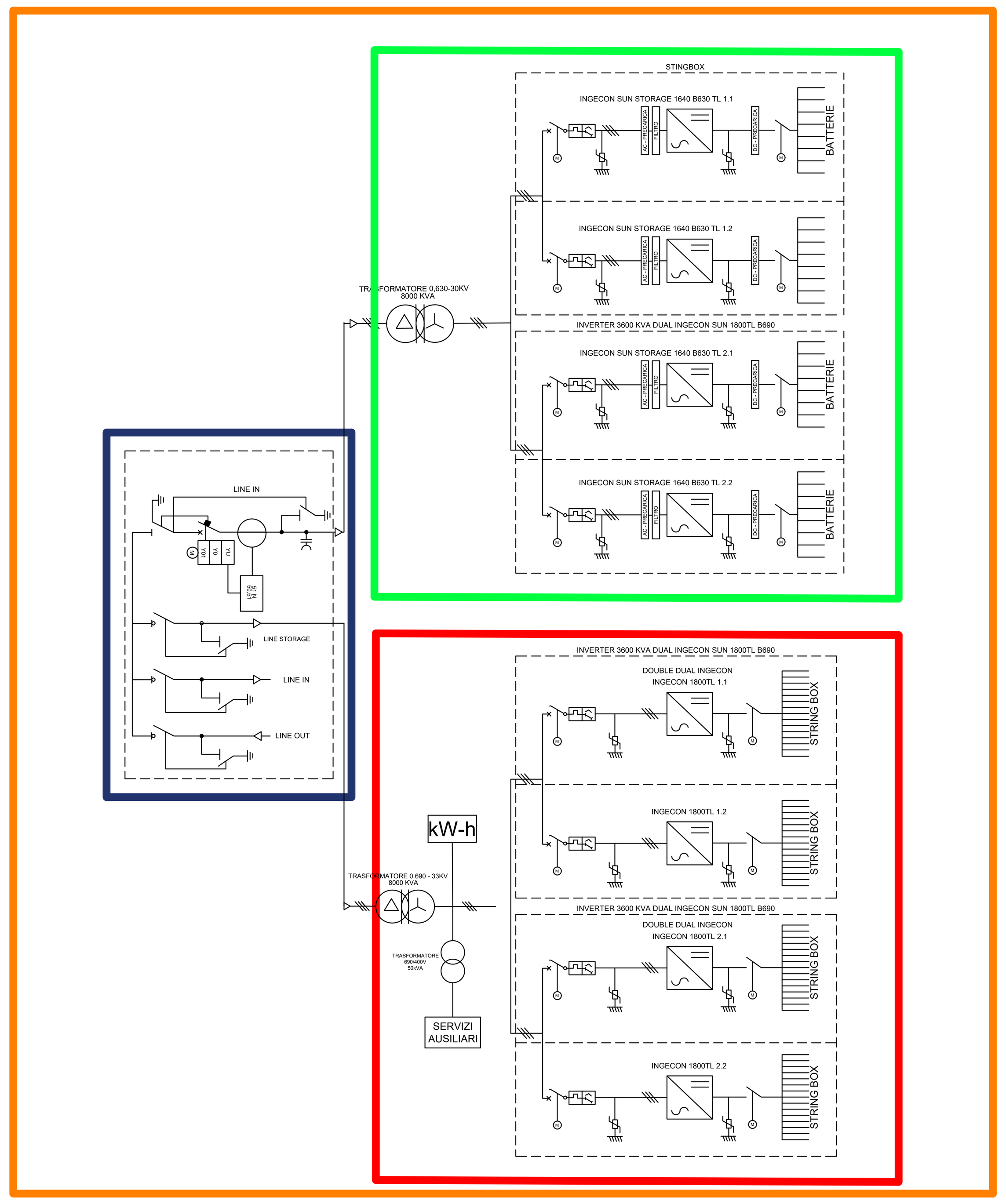


DUAL INVERTER

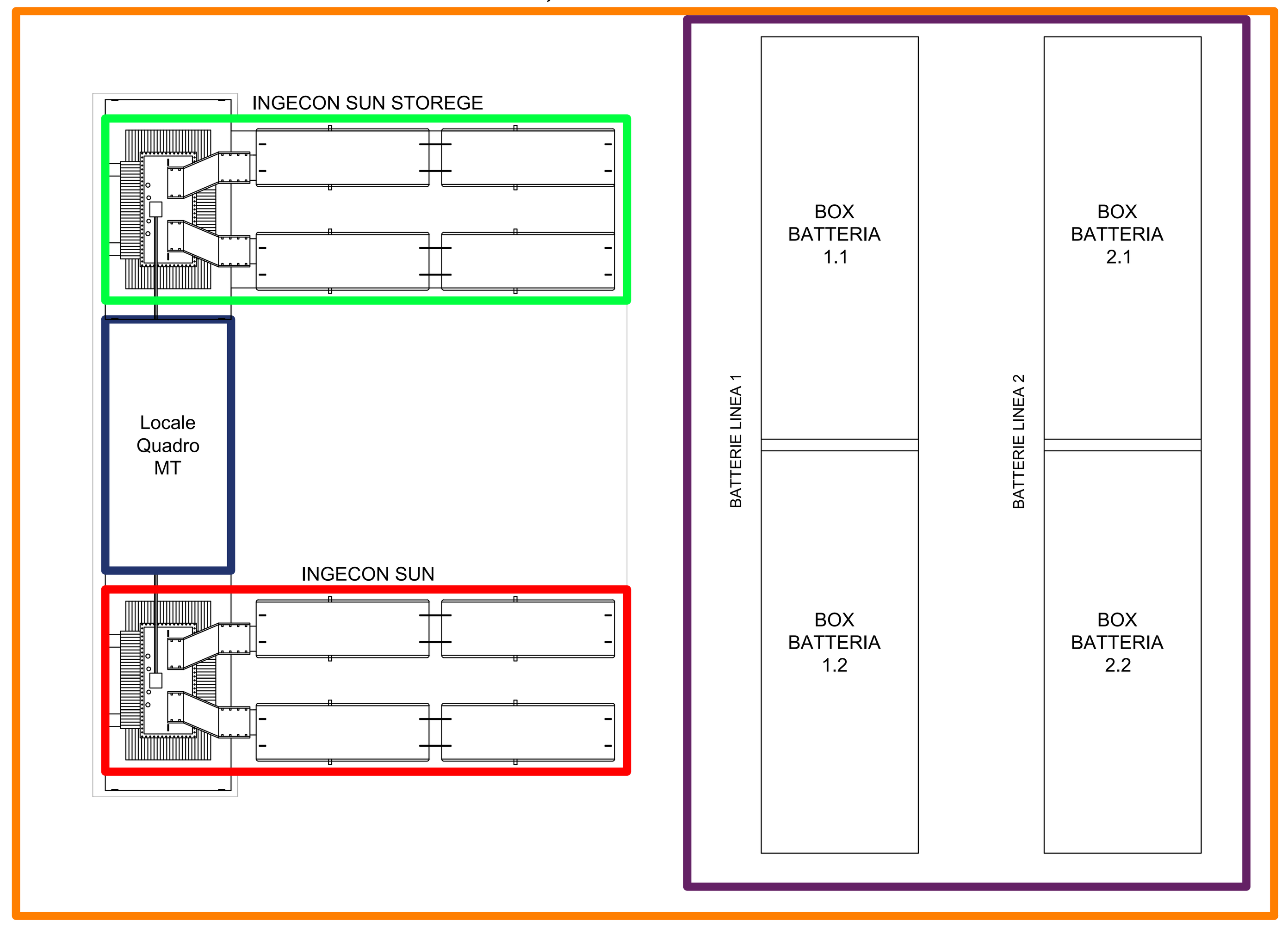


	MSK20 DUAL INVERTER	MSK20 SINGLE + DUAL INVERTER	MSK20 DOUBLE + DUAL INVERTER
NUMBER OF INVERTERS	2	3	4
RATED POWER @50°C / 122 °F	3,227 kVA	4,840 kVA	6,454 kVA
RATED POWER @30°C / 86 °F	3,586 kVA	5,379 kVA	7,172 kVA
VOLTAGE CLASS	24 - 36 kV	24 - 36 kV	24 - 36 kV

SCHEMA ELETTRICO UNIFILARE
CABINA INVERTER, TRASFORMAZIONE E STORAGE

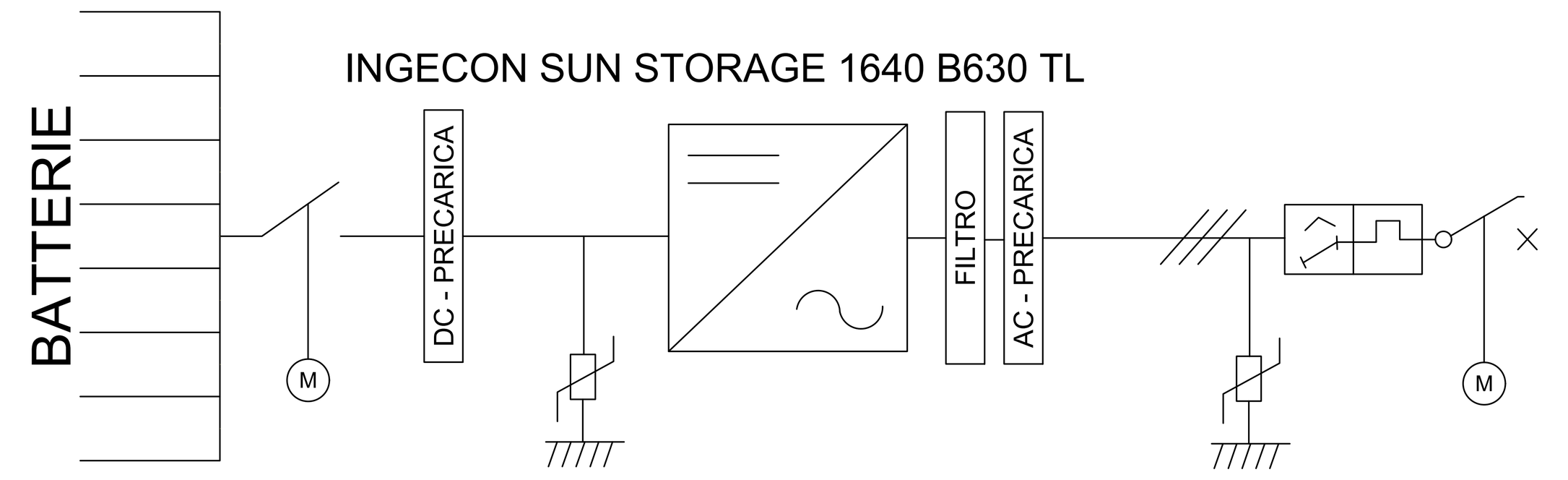


CONFIGURAZIONE
CABINA INVERTER, TRASFORMAZIONE E STORAGE



SUN STORAGE INVERTER

ASSONOMETRIA POWERMAX Dual B Series
1.500 Vdc 3600 kVA



	1640TLB630 DUAL INVERTER SUN STORAGE	1640TLB630 SINGLE + DUAL INVERTER SUN STORAGE	1640TLB630 DOUBLE + DUAL INVERTERS SUN STORAGE
NUMBER OF INVERTERS SUN STORAGE	2	3	4
POWER @30°C / @50°C	3,274 kVA / 2,946 kVA	4,911 kVA / 4,419 kVA	6,548 kVA / 5,892 kVA
POWER FACTOR ADJUSTABLE	3,274 kVA	4,911 kVA	6,548 kVA

REGIONE SICILIA
CITTA' METROPOLITANA DI PALERMO
LIBERO CONSORZIO COMUNALE DI TRAPANI

PROGETTO:
Località Impianto
COMUNE DI GIBELLINA (TP) CONTRADA MAGIONE
COMUNE DI MONREALE (PA) CONTRADE SPIZZECA, PARRINO E TORRETTA
COMUNI DI GIBELLINA (TP)-POGGIOREALE (TP) CONTRADA ABITA DI SOPRA
Località Connessione
COMUNE DI GIBELLINA (TP) CONTRADA CASUZZE
Località Area di produzione Idrogeno
COMUNI DI GIBELLINA (TP)-POGGIOREALE (TP) CONTRADA ABITA DI SOPRA

Oggetto:
PROGETTO DEFINITIVO
Realizzazione impianto agro-fotovoltaico denominato "S&P 9" con potenza di picco 110.271,00 kWp e potenza nominale 100.000,00 kW con annessa produzione di Idrogeno

CODICE ELABORATO:

PROPONENTE	TIPOLOGIA DOCUMENTO	PROGRESSIVO	REV
SP9	EPD	008	00

EPD = ELABORATO DEL PROGETTO DIGITALE; **REL** = RELAZIONE;
ADD = ALTRA DOCUMENTAZIONE; **IST** = ISTANZA

DATA: 22/01/2022

Rev.	Data Rev.	Data Rev.

ELABORATO:
SP9EPD008_00-SeP_9-IMPIANTO-IT-CITS-Particolare_cabina_inverter_trasformazione_storage

TAV: EPD008

SCALA:

PROGETTISTI:
Ing. Sapienza Angelo — Firmato digitalmente da ANGELO SAPIENZA C = IT
Ing. Rizzuto Vincenzo — Firmato digitalmente da vincenzo rizzuto C = IT

SPAZIO RISERVATO PER LE APPROVAZIONI

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