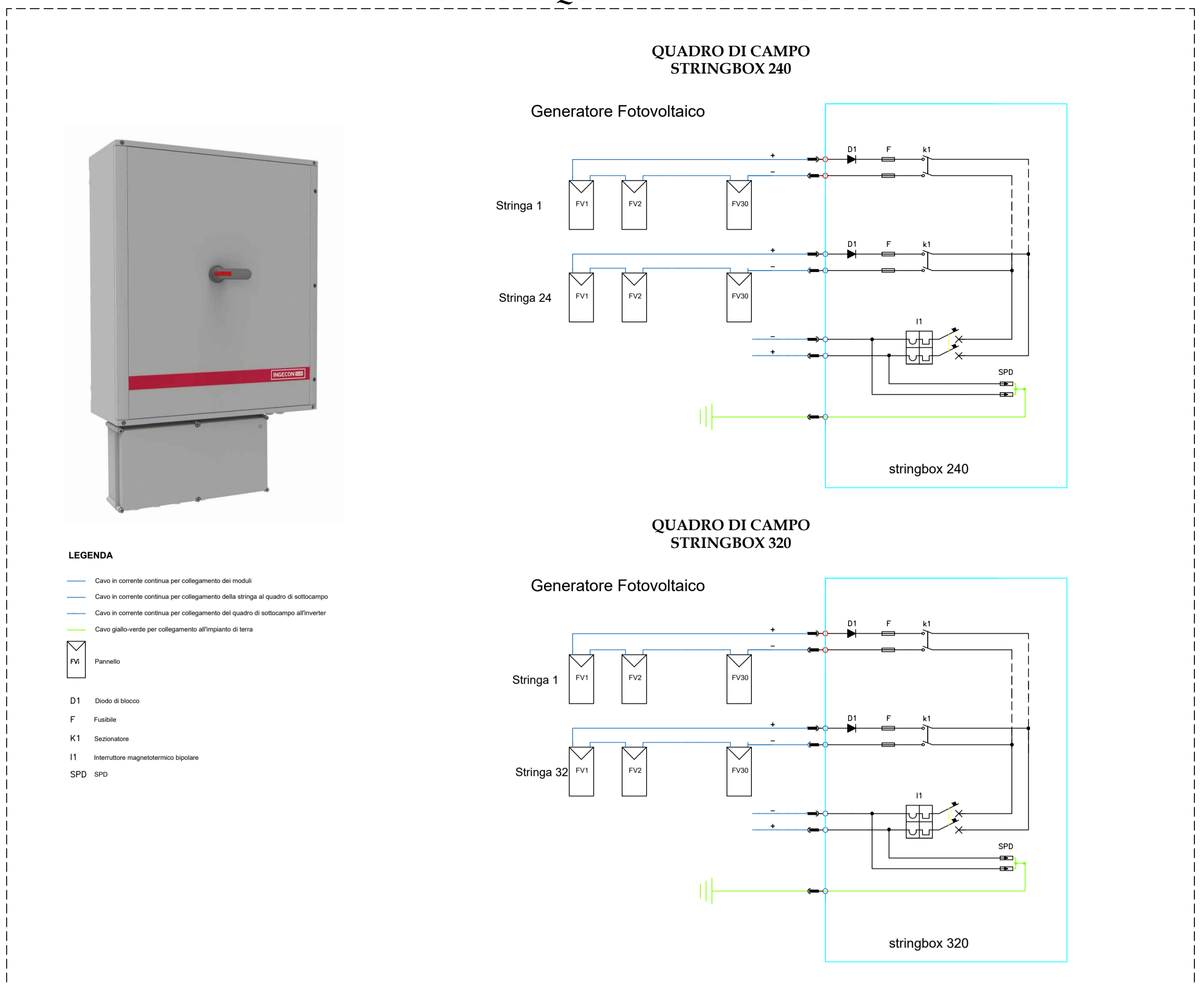
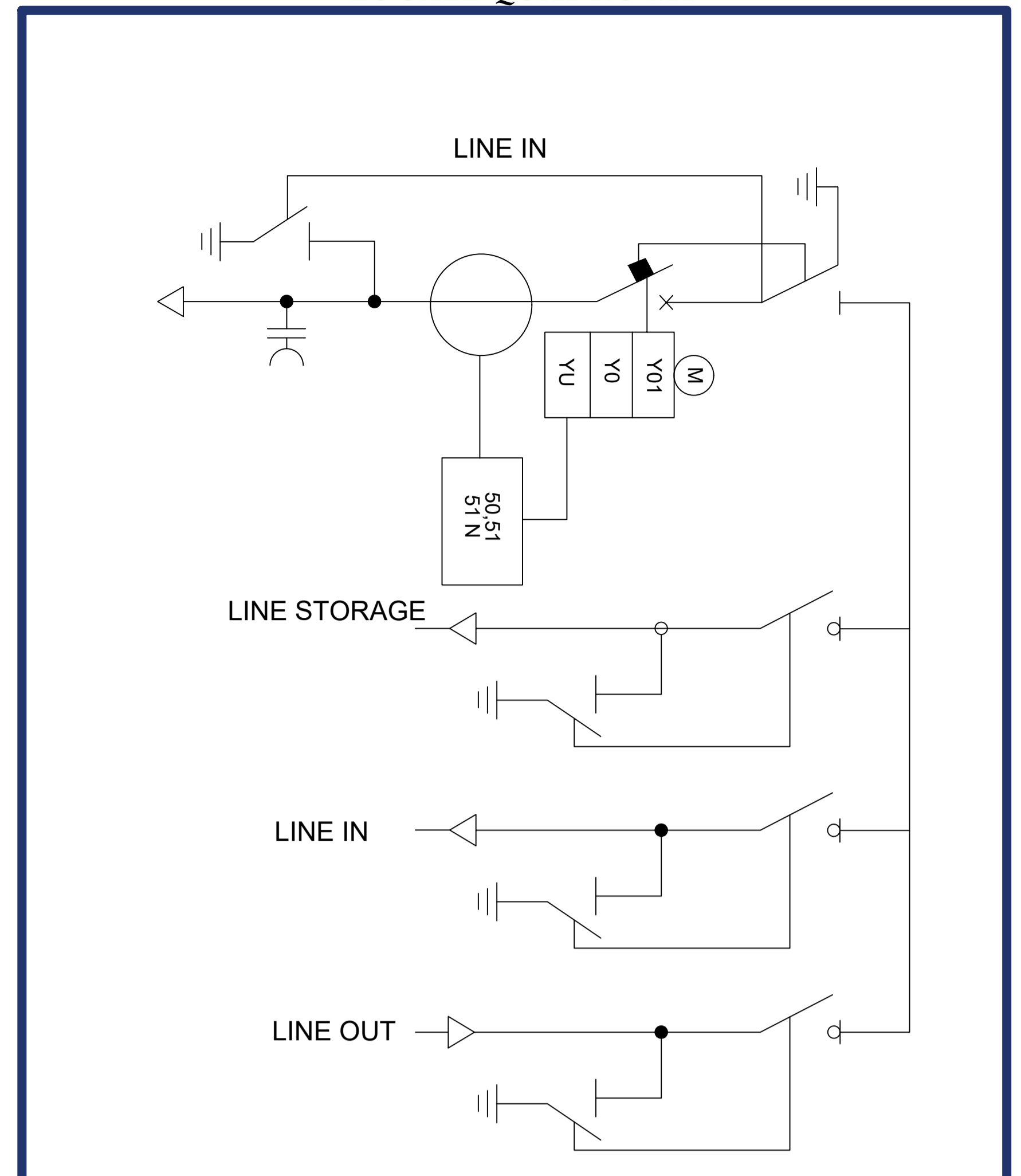


TIPOLOGIA QUADRI DI CAMPO



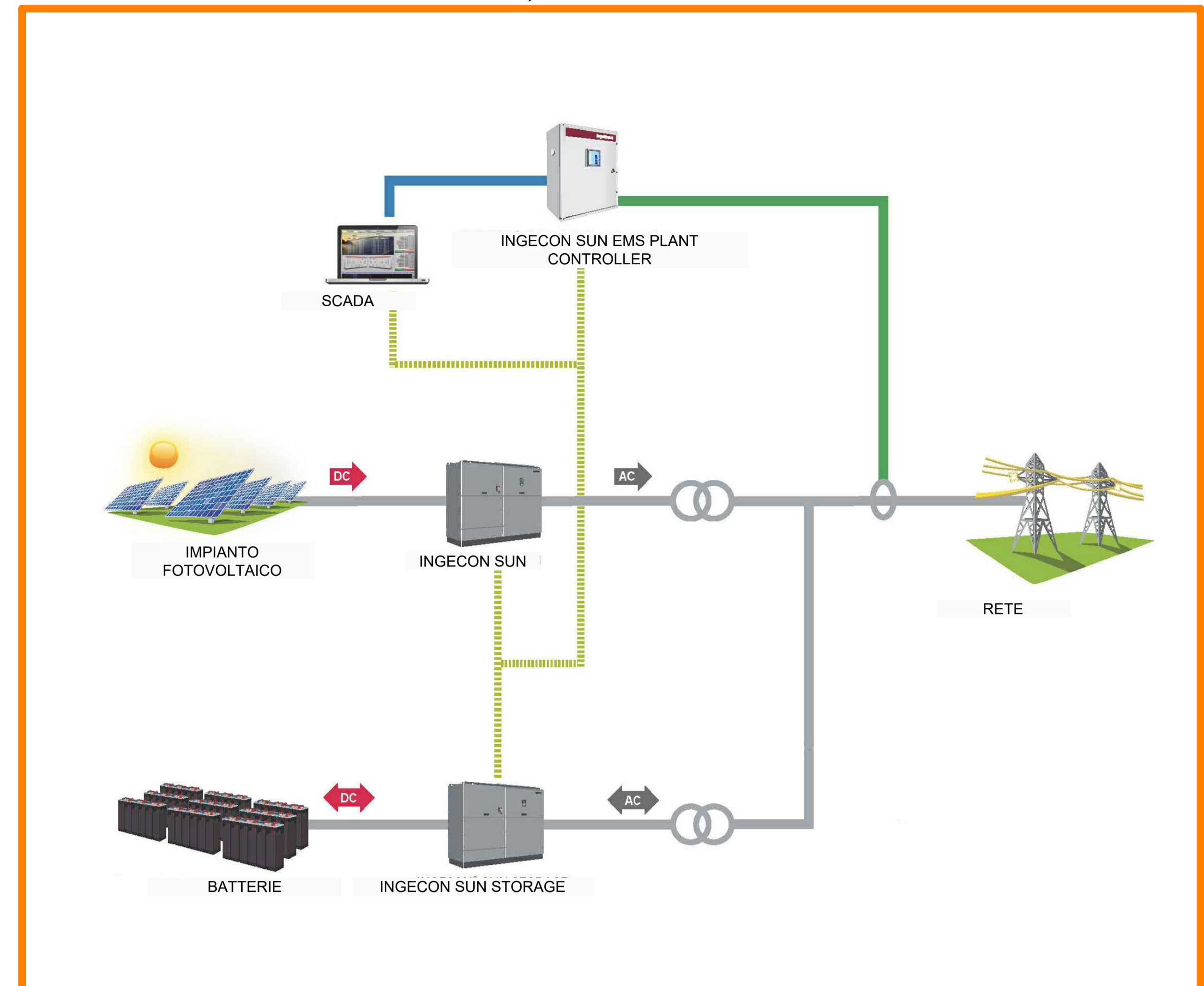
LOCALE QUADRO MT



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	540Vdc
GRID FREQUENCY	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	2.8A
INVERTER EFFICIENCY	98.5 %	BATTERY SPECIFICATIONS	
OPERATING TEMPERATURE	-20°C to 50°C	BATTERY BLOCK POWER	500kw
ALTITUDE	Derated 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 response, Automatic Voltage regulation, Contingency Response	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 Diagnostic 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 charge, state of health, maximum cell voltage, maximum cell temperature, power limits, current limits, component failures, ground fault
STANDARDS COMPLIANCE	NEC, UL1741, IEC 62109-2, IEC 61851-1, UL1973, UL1542	BATTERY CHEMISTRY	Advanced lithium ion sealed cells or similar

SCHEMA DI BLOCCO CABINA INVERTER, TRASFORMAZIONE E STORAGE



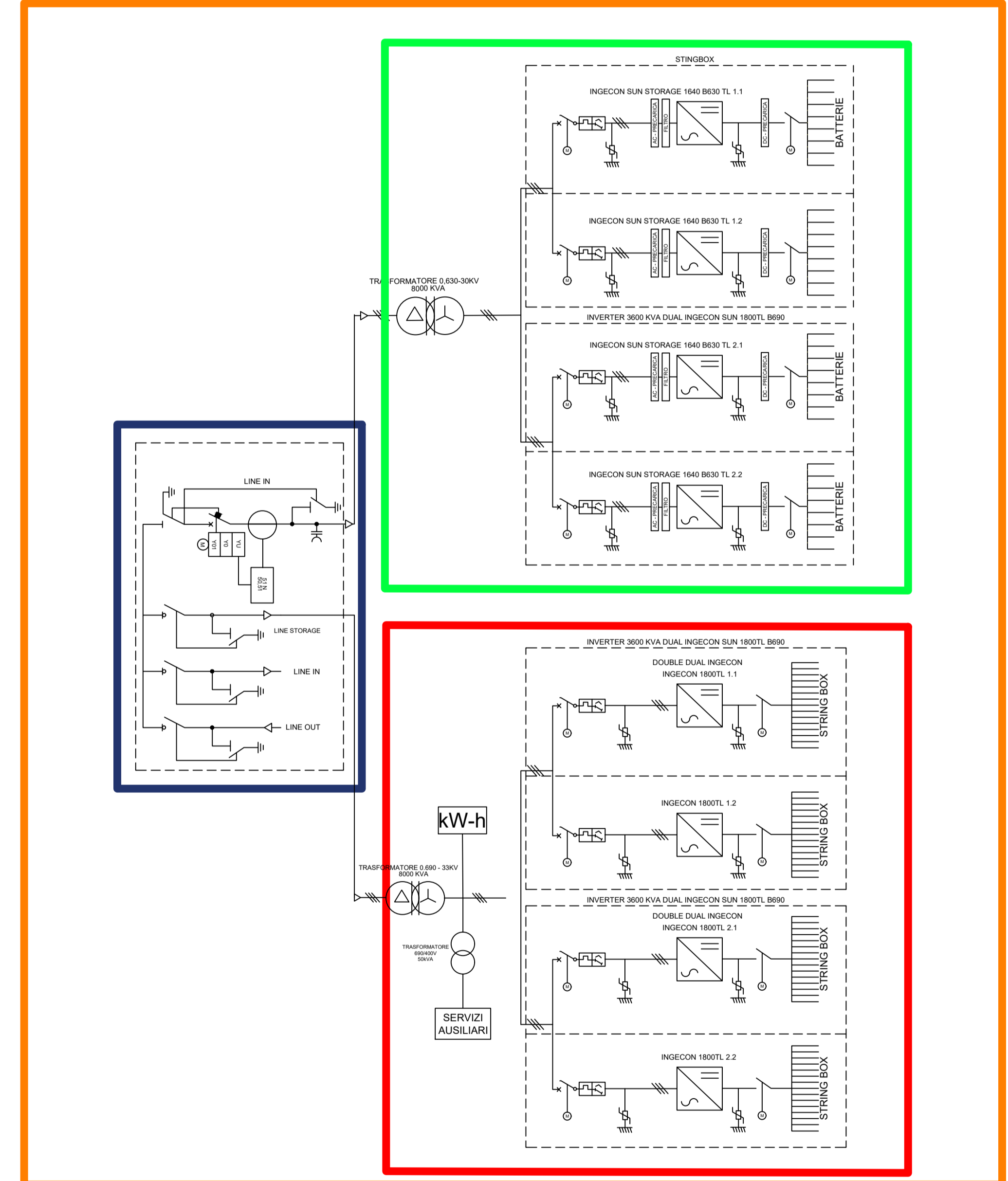
CONFIGURAZIONE INGECON SUN

DOUBLE + DUAL INVERTER

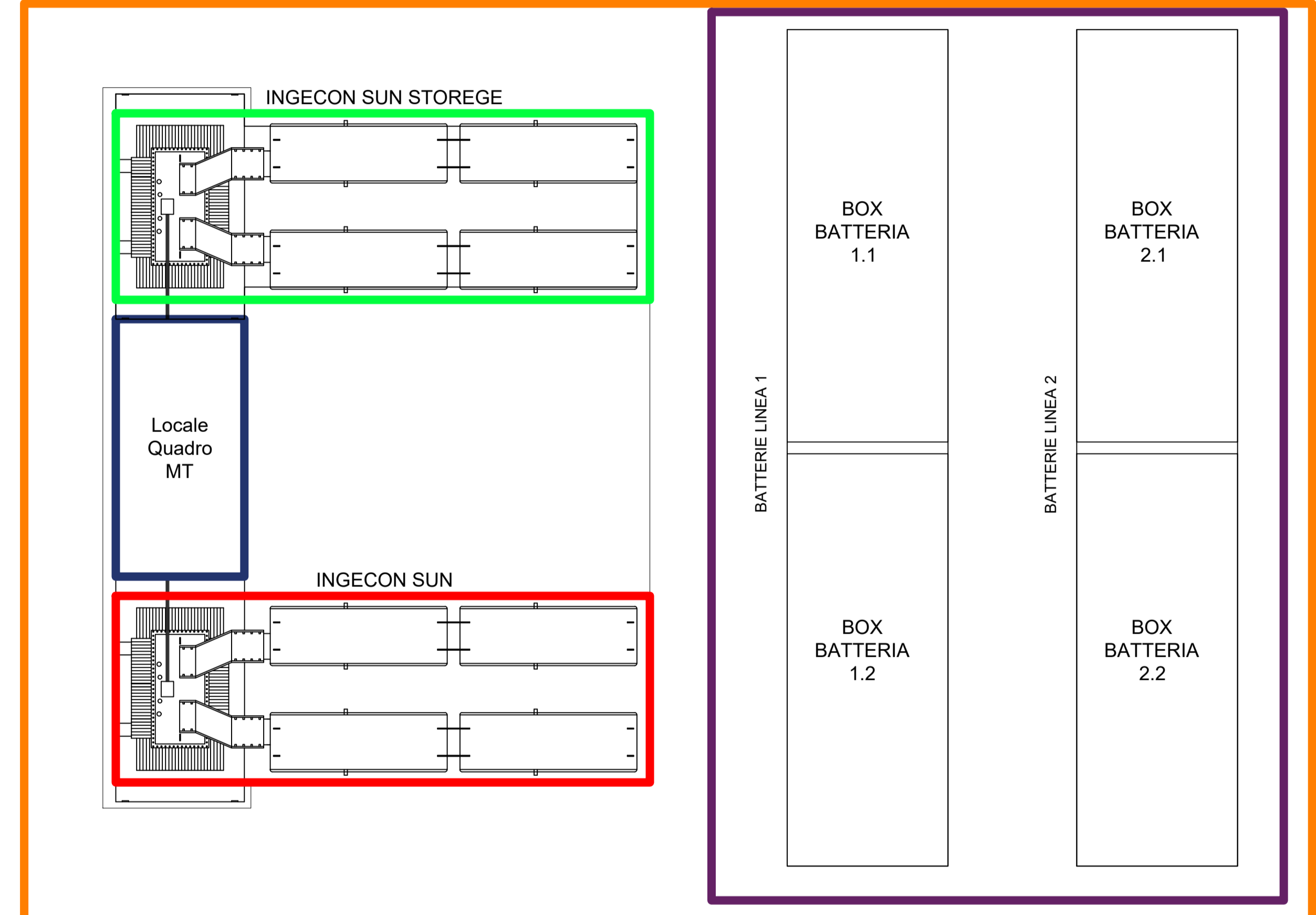
SINGLE + DUAL INVERTER

DUAL INVERTER

SCHEMA ELETTRICO UNIFILARE CABINA INVERTER, TRASFORMAZIONE E STORAGE



CONFIGURAZIONE CABINA INVERTER, TRASFORMAZIONE E STORAGE



SUN STORAGE INVERTER

BATTERIE
DC - PRECARICA
INVERTER SUN STORAGE
FILTRO
AC - PRECARICA

	1640TLB630 DUAL INVERTER SUN STORAGE	1640TLB630 SINGLE + DUAL INVERTER SUN STORAGE	1640TLB630 DOUBLE + DUAL INVERTERS SUN STORAGE
NUMBER OF INVERTERS	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

ASSONOMETRIA POWERMAX Dual B Series
1.500 Vdc 3600 kVA

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

Località Impianto
COMUNE DI MONREALE (PA) E COMUNE DI CAMPOREALE (PA)
CONTRADE TERMINI MANDRANOVA E PIZZILLO
Località Connessione
COMUNE DI GIBELLINA (TP) CONTRADA CASUZZE

Oggetto: **PROGETTO DEFINITIVO**
Realizzazione impianto agro-fotovoltaico denominato "S&P 8" con potenza di picco 317.679,60 kWp e potenza nominale 250.000 kW

CODICE LABORATORIO	PROGETTISTA	PROVVISORIA DOCUMENTAZIONE	PROGRESSIVO	REV	DATA
809	EPD	006	006	00	30/07/2021

ELABORATO: SP8EPD006_00-Sep_8-IMPIANTO-IT-CITIS- Particolare_cabina_inverter_trasformazione_storage

TAV: EPD006

PROGETTISTI: Ing. Saipenza Angelo

Ing. Saipenza Angelo

SOCIETA': S&P 8 S.R.L. SICILIA E PROGRESSO

SP8
SICILIA E PROGRESSO