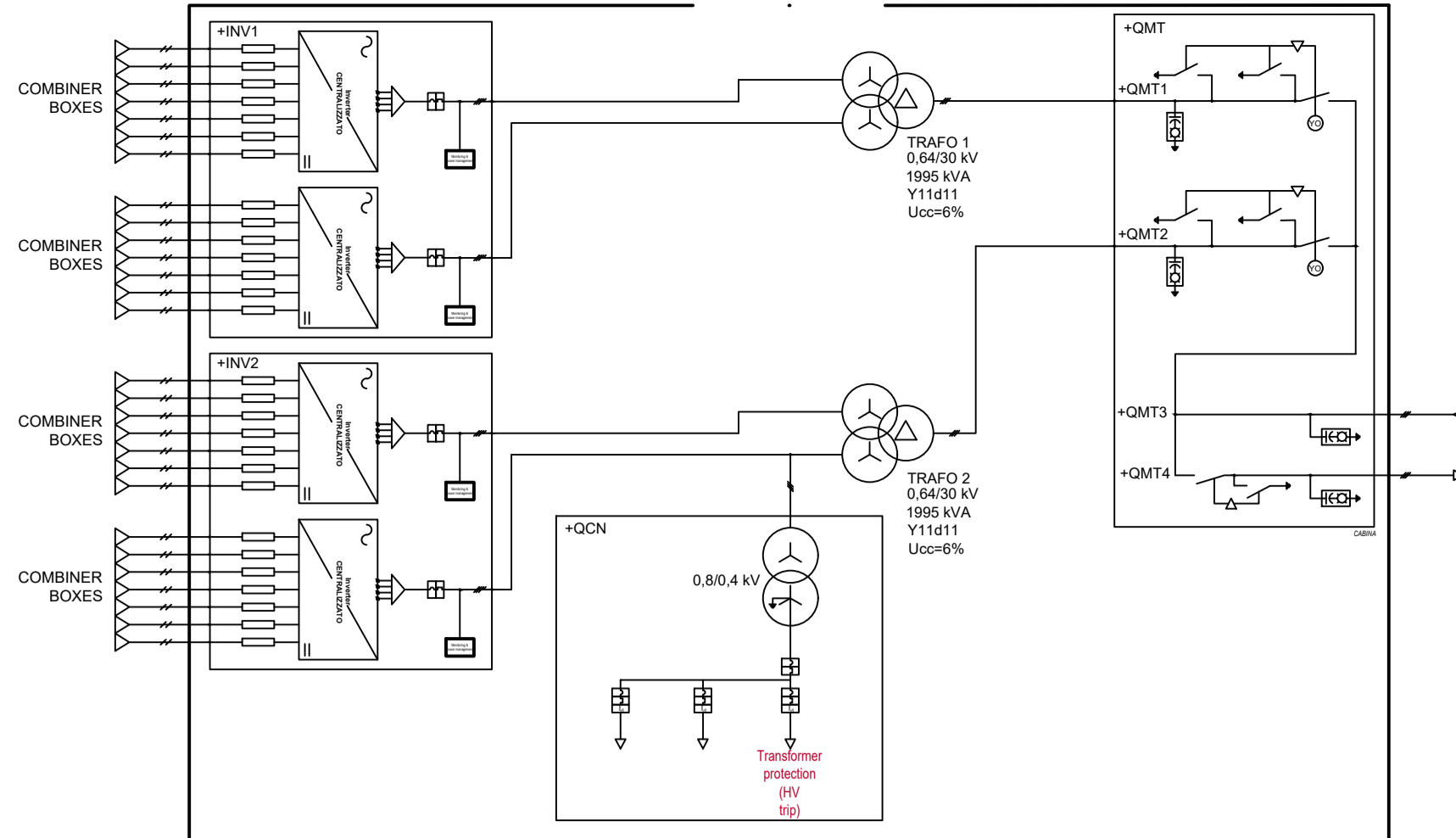


# Caratteristiche apparecchiature AC BT-MT

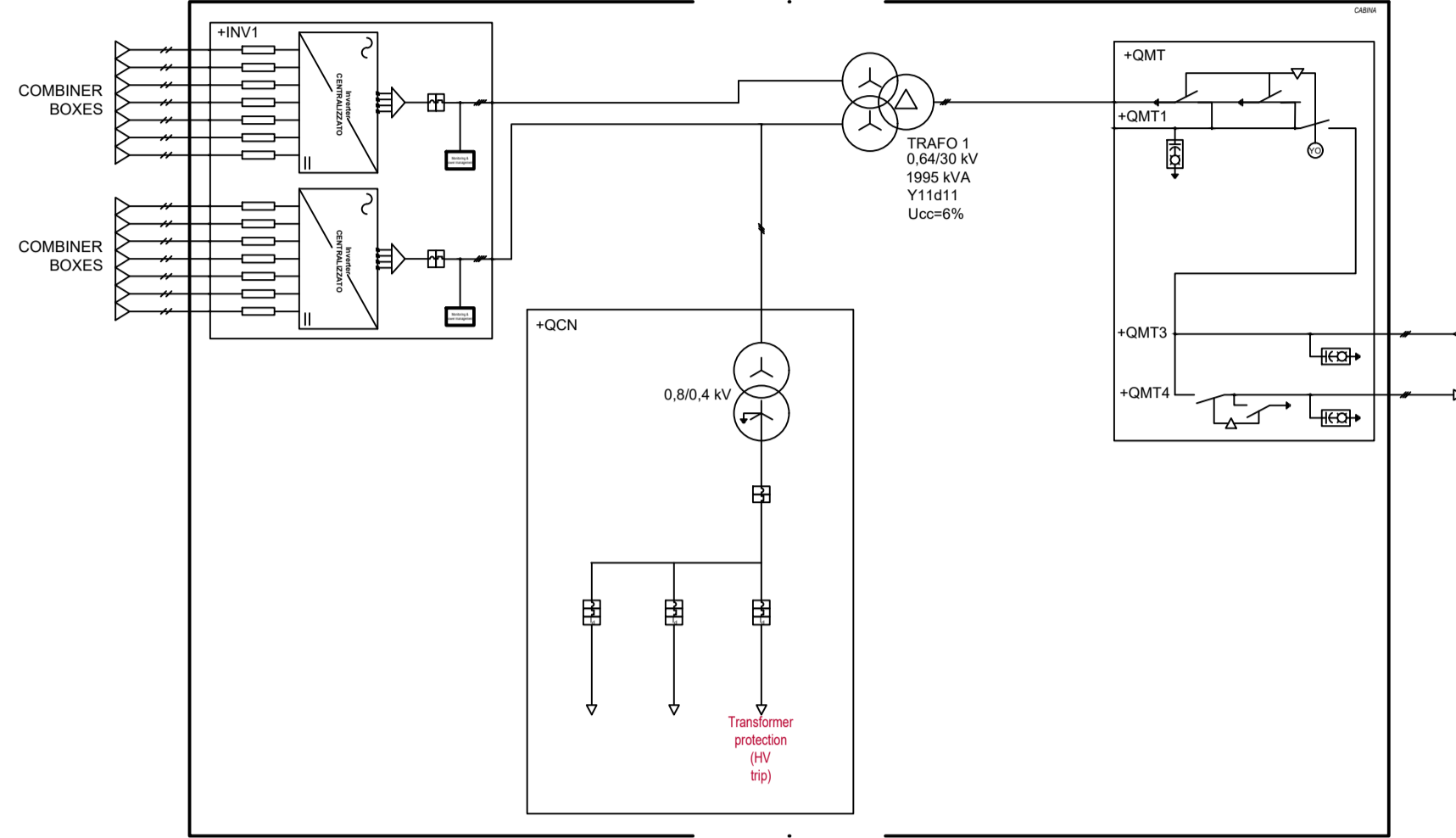
## SCHEMA A BLOCCHI SUNWAY STATION 4000 1500V 640LS



Main features	
Model Name	SUNWAY T61800 1500V TE - 640 STD
Configuration	Custom Output Power 1500 kVA
MPPT voltage range (1)	940 - 1200V
Extended MPPT voltage range (1)(1)	910 - 1300V
Maximum open-circuit voltage (1)	1500V
Rated AC voltage	640 V ± 10%
Rated output frequency	50/60 Hz (up to 3 / +2 Hz)
Power Factor range (1)	Circular Capability
Operating temperature range	-25 to +42 °C
Application / Degree of protection	Indoor / IP20
Maximum operating altitude (1)	4000 m
Base Unit Converter Model (1)	TG 900 1500V TE
Input ratings (DC)	2 x 1500A
Output ratings (AC)	1500 kVA up to 50°C ambient temperature (1)
Rated output power (up to 50°C)	1353 A (1)
Rated output current	1353 A (1)
Power threshold	1% of Rated output power
Total AC current distortion	< 3% (1)
MPPT and conversion efficiency	99.8% / 99.7%
Static / Dynamic MPPT efficiency	98.7% / 98.4% / -
Max / EU / CEC conversion efficiency (1)	98.7% / 98.4% / -
Dimensions (W x H x D)	Inverter dimensions and weight
Weight	3000 x 2100 x 800 mm
Auxiliary consumptions	90 W / 90 W
Stop mode losses / Night losses	1800 W

Additional information	
Protection against overvoltage (SPD)	DC Side: Yes - AC Side: Optional
Maximum value for relative humidity	95% non-condensing
Cooling system / Fresh air consumption	Forced air / 5650 m <sup>3</sup> /h
Thermal protection	Integrated, 5 sensors, both on cabinet and power stack
Environmental sensors	4 embedded inputs
Digital communications channels	2 x RS485 with Modbus + Ethernet with TCP/IP
Noise emission @ 1m / 10m (1)	78 / 58 dBA
Connection phases	3Ø/3W
Max DC inputs per pole / fuse protected (1)	14 / 14
DC inputs current monitoring	Optional
DC side disconnection device	DC disconnect switch
AC side disconnection device	AC circuit breaker
Ground fault monitoring, DC side	Yes
Ground fault monitoring, AC side	Optional
Grid fault monitoring	Yes
Display	Alphanumeric display/keyboard
Power modulation	Digital, via RS485 or Ethernet
RAL	RAL 7035
PV plant monitoring	Optional, via Sunway Portal

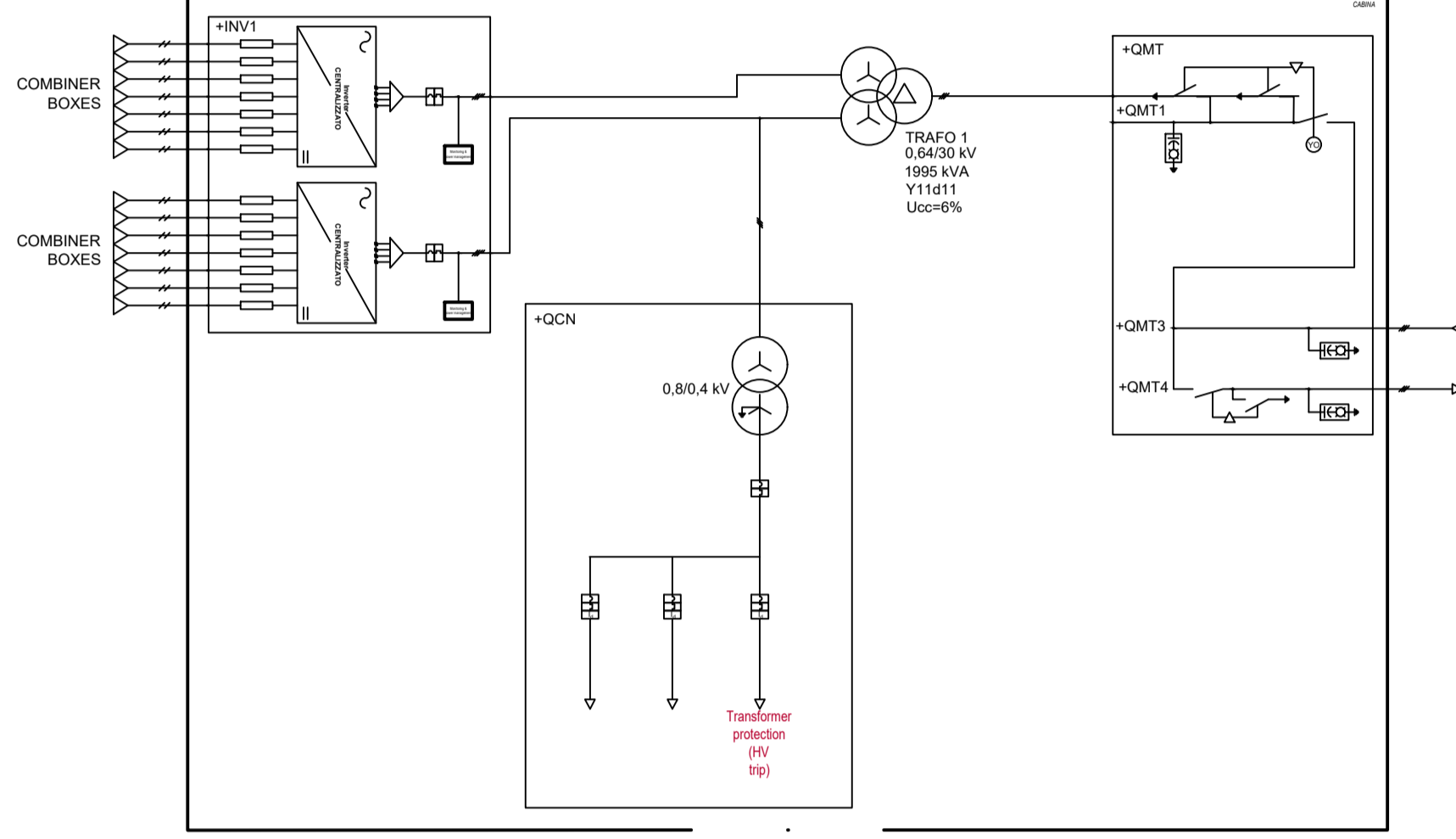
## SCHEMA A BLOCCHI SUNWAY STATION 2000 1500V 640LS



Main features	
Model Name	SUNWAY T61800 1500V TE - 640 STD
Configuration	Custom Output Power 1500 kVA
MPPT voltage range (1)	940 - 1200V
Extended MPPT voltage range (1)(1)	910 - 1300V
Maximum open-circuit voltage (1)	1500V
Rated AC voltage	640 V ± 10%
Rated output frequency	50/60 Hz (up to 3 / +2 Hz)
Power Factor range (1)	Circular Capability
Operating temperature range	-25 to +42 °C
Application / Degree of protection	Indoor / IP20
Maximum operating altitude (1)	4000 m
Base Unit Converter Model (1)	TG 900 1500V TE
Input ratings (DC)	2 x 1500A
Output ratings (AC)	1500 kVA up to 50°C ambient temperature (1)
Rated output power (up to 50°C)	1353 A (1)
Rated output current	1353 A (1)
Power threshold	1% of Rated output power
Total AC current distortion	< 3% (1)
MPPT and conversion efficiency	99.8% / 99.7%
Static / Dynamic MPPT efficiency	98.7% / 98.4% / -
Max / EU / CEC conversion efficiency (1)	98.7% / 98.4% / -
Dimensions (W x H x D)	Inverter dimensions and weight
Weight	3000 x 2100 x 800 mm
Auxiliary consumptions	90 W / 90 W
Stop mode losses / Night losses	1800 W

Additional information	
Protection against overvoltage (SPD)	DC Side: Yes - AC Side: Optional
Maximum value for relative humidity	95% non-condensing
Cooling system / Fresh air consumption	Forced air / 5650 m <sup>3</sup> /h
Thermal protection	Integrated, 5 sensors, both on cabinet and power stack
Environmental sensors	4 embedded inputs
Digital communications channels	2 x RS485 with Modbus + Ethernet with TCP/IP
Noise emission @ 1m / 10m (1)	78 / 58 dBA
Connection phases	3Ø/3W
Max DC inputs per pole / fuse protected (1)	14 / 14
DC inputs current monitoring	Optional
DC side disconnection device	DC disconnect switch
AC side disconnection device	AC circuit breaker
Ground fault monitoring, DC side	Yes
Ground fault monitoring, AC side	Optional
Grid fault monitoring	Yes
Display	Alphanumeric display/keyboard
Power modulation	Digital, via RS485 or Ethernet
RAL	RAL 7035
PV plant monitoring	Optional, via Sunway Portal

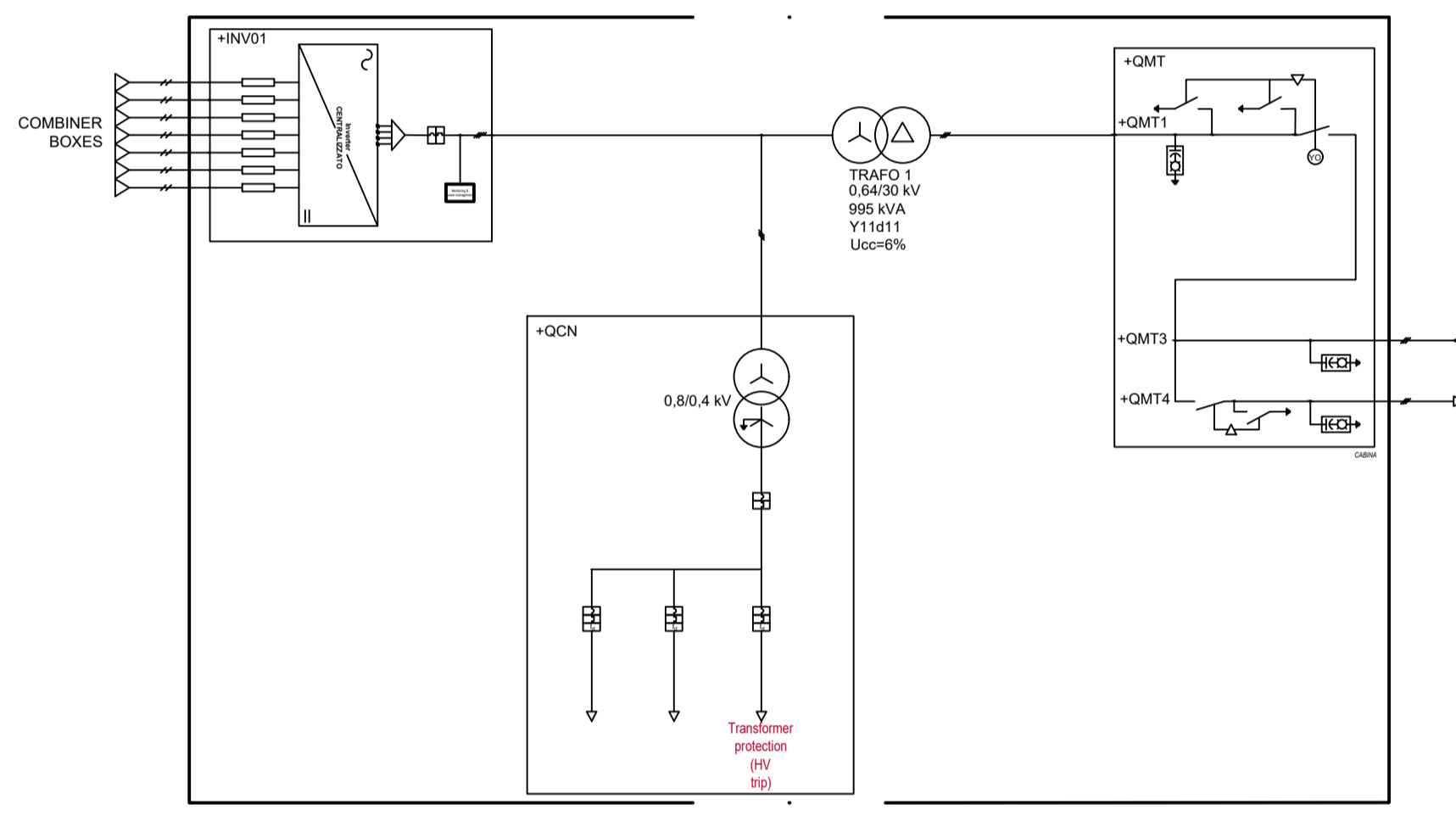
## SCHEMA A BLOCCHI SUNWAY STATION 1500 1500V 640LS



Main features	
Model Name	SUNWAY T61800 1500V TE - 640 STD
Configuration	Custom Output Power 1500 kVA
MPPT voltage range (1)	940 - 1200V
Extended MPPT voltage range (1)(1)	910 - 1300V
Maximum open-circuit voltage (1)	1500V
Rated AC voltage	640 V ± 10%
Rated output frequency	50/60 Hz (up to 3 / +2 Hz)
Power Factor range (1)	Circular Capability
Operating temperature range	-25 to +42 °C
Application / Degree of protection	Indoor / IP20
Maximum operating altitude (1)	4000 m
Base Unit Converter Model (1)	TG 900 1500V TE
Input ratings (DC)	2 x 1500A
Output ratings (AC)	1500 kVA up to 50°C ambient temperature (1)
Rated output power (up to 50°C)	1353 A (1)
Rated output current	1353 A (1)
Power threshold	1% of Rated output power
Total AC current distortion	< 3% (1)
MPPT and conversion efficiency	99.8% / 99.7%
Static / Dynamic MPPT efficiency	98.7% / 98.4% / -
Max / EU / CEC conversion efficiency (1)	98.7% / 98.4% / -
Dimensions (W x H x D)	Inverter dimensions and weight
Weight	3000 x 2100 x 800 mm
Auxiliary consumptions	90 W / 90 W
Stop mode losses / Night losses	1800 W

Additional information	
Protection against overvoltage (SPD)	DC Side: Yes - AC Side: Optional
Maximum value for relative humidity	95% non-condensing
Cooling system / Fresh air consumption	Forced air / 5650 m <sup>3</sup> /h
Thermal protection	Integrated, 5 sensors, both on cabinet and power stack
Environmental sensors	4 embedded inputs
Digital communications channels	2 x RS485 with Modbus + Ethernet with TCP/IP
Noise emission @ 1m / 10m (1)	78 / 58 dBA
Connection phases	3Ø/3W
Max DC inputs per pole / fuse protected (1)	14 / 14
DC inputs current monitoring	Optional
DC side disconnection device	DC disconnect switch
AC side disconnection device	AC circuit breaker
Ground fault monitoring, DC side	Yes
Ground fault monitoring, AC side	Optional
Grid fault monitoring	Yes
Display	Alphanumeric display/keyboard
Power modulation	Digital, via RS485 or Ethernet
RAL	RAL 7035
PV plant monitoring	Optional, via Sunway Portal

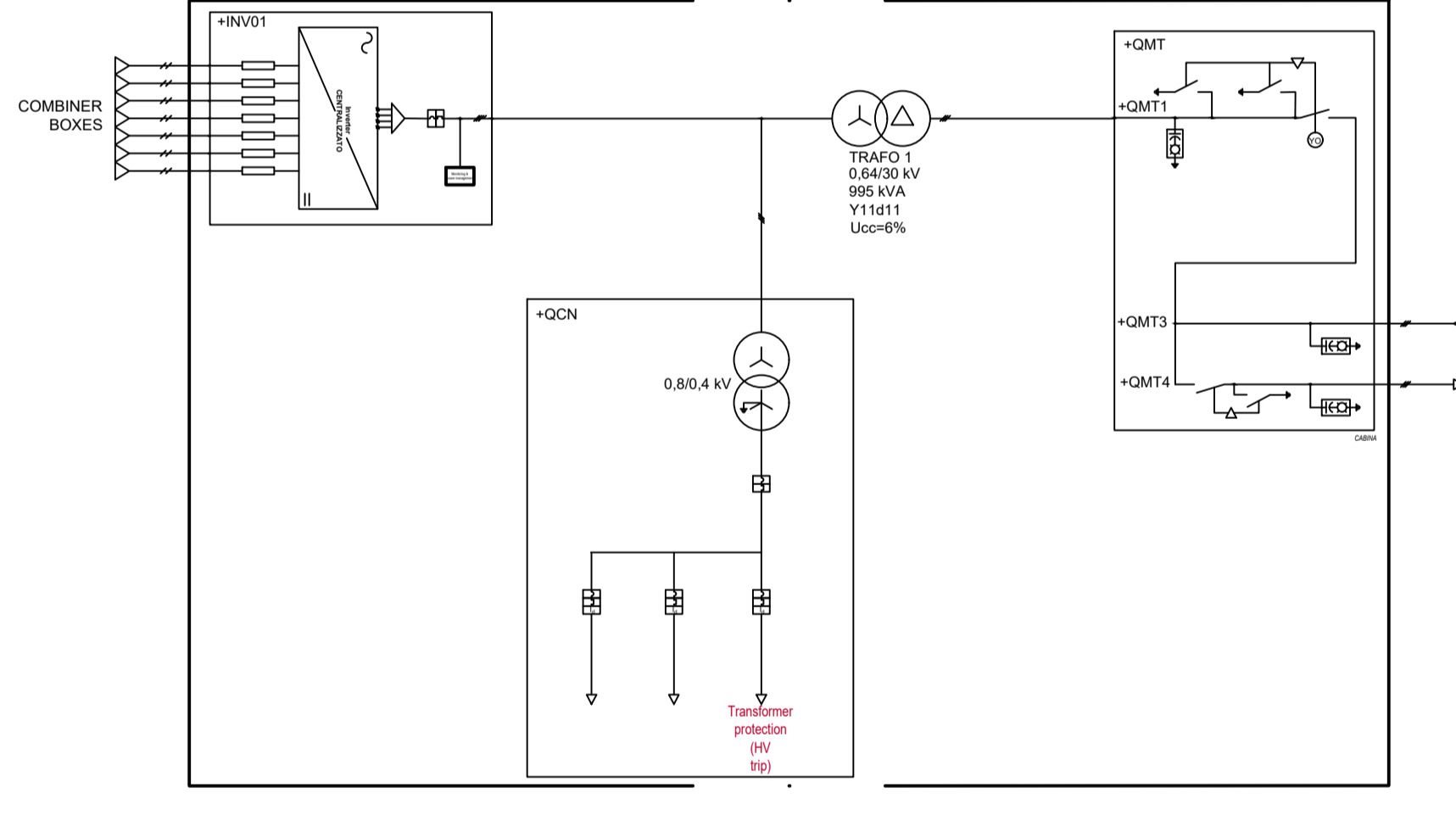
## SCHEMA A BLOCCHI SUNWAY STATION 1000 1500V 640LS



Main features	
Model Name	SUNWAY T61800 1500V TE - 640 STD
Configuration	Custom Output Power 1500 kVA
MPPT voltage range (1)	940 - 1200V
Extended MPPT voltage range (1)(1)	910 - 1300V
Maximum open-circuit voltage (1)	1500V
Rated AC voltage	640 V ± 10%
Rated output frequency	50/60 Hz (up to 3 / +2 Hz)
Power Factor range (1)	Circular Capability
Operating temperature range	-25 to +42 °C
Application / Degree of protection	Indoor / IP20
Maximum operating altitude (1)	4000 m
Base Unit Converter Model (1)	TG 900 1500V TE
Input ratings (DC)	2 x 1500A
Output ratings (AC)	1500 kVA up to 50°C ambient temperature (1)
Rated output power (up to 50°C)	1353 A (1)
Rated output current	1353 A (1)
Power threshold	1% of Rated output power
Total AC current distortion	< 3% (1)
MPPT and conversion efficiency	99.8% / 99.7%
Static / Dynamic MPPT efficiency	98.7% / 98.4% / -
Max / EU / CEC conversion efficiency (1)	98.7% / 98.4% / -
Dimensions (W x H x D)	Inverter dimensions and weight
Weight	3000 x 2100 x 800 mm
Auxiliary consumptions	90 W / 90 W
Stop mode losses / Night losses	1800 W

Additional information	
Protection against overvoltage (SPD)	DC Side: Yes - AC Side: Optional
Maximum value for relative humidity	95% non-condensing
Cooling system / Fresh air consumption	Forced air / 3100 m <sup>3</sup> /h
Thermal protection	Integrated, 5 sensors, both on cabinet and power stack
Environmental sensors	4 embedded inputs
Digital communications channels	2 x RS485 with Modbus + Ethernet with TCP/IP
Noise emission @ 1m / 10m (1)	78 / 58 dBA
Connection phases	3Ø/3W
Max DC inputs per pole / fuse protected (1)	7 / 7
DC inputs current monitoring	Optional
DC side disconnection device	DC disconnect switch
AC side disconnection device	AC circuit breaker
Ground fault monitoring, DC side	Yes
Ground fault monitoring, AC side	Optional
Grid fault monitoring	Yes
Display	Alphanumeric display/keyboard
Power modulation	Digital, via RS485 or Ethernet
RAL	RAL 7035
PV plant monitoring	Optional, via Sunway Portal

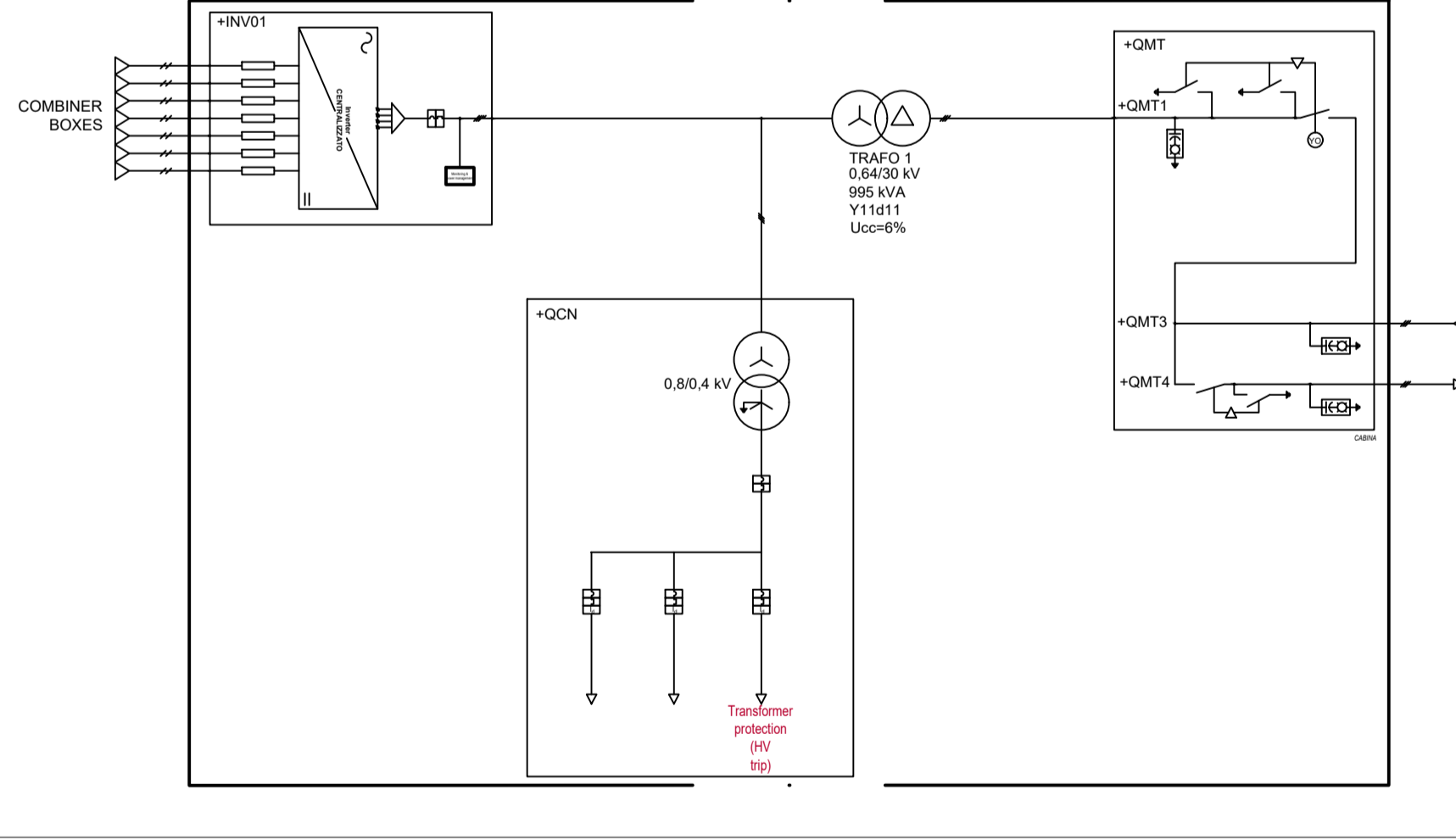
## SCHEMA A BLOCCHI SUNWAY STATION 500 1500V 640LS



Main features	
Model Name	SUNWAY T61800 1500V TE - 640 STD
Configuration	Custom Output Power 1500 kVA
MPPT voltage range (1)	940 - 1200V
Extended MPPT voltage range (1)(1)	910 - 1300V
Maximum open-circuit voltage (1)	1500V
Rated AC voltage	640 V ± 10%
Rated output frequency	50/60 Hz (up to 3 / +2 Hz)
Power Factor range (1)	Circular Capability
Operating temperature range	-25 to +42 °C
Application / Degree of protection	Indoor / IP20
Maximum operating altitude (1)	4000 m
Base Unit Converter Model (1)	TG 900 1500V TE
Input ratings (DC)	2 x 1500A
Output ratings (AC)	1500 kVA up to 50°C ambient temperature (1)
Rated output power (up to 50°C)	1353 A (1)
Rated output current	1353 A (1)
Power threshold	1% of Rated output power
Total AC current distortion	< 3% (1)
MPPT and conversion efficiency	99.8% / 99.7%
Static / Dynamic MPPT efficiency	98.7% / 98.4% / -
Max / EU / CEC conversion efficiency (1)	98.7% / 98.4% / -
Dimensions (W x H x D)	Inverter dimensions and weight
Weight	1800 x 2100 x 800 mm
Auxiliary consumptions	45 W / 45 W
Stop mode losses / Night losses	1250 W

Additional information	
Protection against overvoltage (SPD)	DC Side: Yes - AC Side: Optional
Maximum value for relative humidity	95% non-condensing
Cooling system / Fresh air consumption	Forced air / 3100 m <sup>3</sup> /h
Thermal protection	Integrated, 5 sensors, both on cabinet and power stack
Environmental sensors	4 embedded inputs
Digital communications channels	2 x RS485 with Modbus + Ethernet with TCP/IP
Noise emission @ 1m / 10m (1)	78 / 58 dBA
Connection phases	3Ø/3W
Max DC inputs per pole / fuse protected (1)	7 / 7
DC inputs current monitoring	Optional
DC side disconnection device	DC disconnect switch
AC side disconnection device	AC circuit breaker
Ground fault monitoring, DC side	Yes
Ground fault monitoring, AC side	Optional
Grid fault monitoring	Yes
Display	Alphanumeric display/keyboard
Power modulation	Digital, via RS485 or Ethernet
RAL	RAL 7035
PV plant monitoring	Optional, via Sunway Portal

## SCHEMA A BLOCCHI SUNWAY STATION 300 1500V 600LS



Main features	
Model Name	SUNWAY T61800 1500V TE - 600 STD
Configuration	Custom Output Power 1500 kVA
MPPT voltage range (1)	940 - 1200V
Extended MPPT voltage range (1)(1)	910 - 1300V
Maximum open-circuit voltage (1)	1500V
Rated AC voltage	600 V ± 10%
Rated output frequency	50/60 Hz (up to 3 / +2 Hz)
Power Factor range (1)	Circular Capability
Operating temperature range	-25 to +42 °C
Application / Degree of protection	Indoor / IP20
Maximum operating altitude (1)	4000 m
Base Unit Converter Model (1)	TG 900 1500V TE
Input ratings (DC)	2 x 1500A
Output ratings (AC)	1500 kVA up to 50°C ambient temperature (1)
Rated output power (up to 50°C)	1353 A (1)
Rated output current	1353 A (1)
Power threshold	1% of Rated output power
Total AC current distortion	< 3% (1)
MPPT and conversion efficiency	99.8% / 99.7%
Static / Dynamic MPPT efficiency	98.7% / 98.4% / -
Max / EU / CEC conversion efficiency (1)	98.7% / 98.4% / -
Dimensions (W x H x D)	Inverter dimensions and weight
Weight	1800 x 2100 x 800 mm
Auxiliary consumptions	45 W / 45 W
Stop mode losses / Night losses	1250 W

Additional information	
Protection against overvoltage (SPD)	DC Side: Yes - AC Side: Optional
Maximum value for relative humidity	95% non-condensing
Cooling system / Fresh air consumption	Forced air / 3100 m <sup>3</sup> /h
Thermal protection	Integrated, 5 sensors, both on cabinet and power stack
Environmental sensors	4 embedded inputs
Digital communications channels	2 x RS485 with Modbus + Ethernet with TCP/IP
Noise emission @ 1m / 10m (1)	78 / 58 dBA
Connection phases	3Ø/3W
Max DC inputs per pole / fuse protected (1)	7 / 7
DC inputs current monitoring	Optional
DC side disconnection device	DC disconnect switch
AC side disconnection device	AC circuit breaker
Ground fault monitoring, DC side	Yes
Ground fault monitoring, AC side	Optional
Grid fault monitoring	Yes
Display	Alphanumeric display/keyboard
Power modulation	Digital, via RS485 or Ethernet
RAL	RAL 7035
PV plant monitoring	Optional, via Sunway Portal

### Trasformatore bT/MT 4000kVA

Model	Power (kVA)	Dimensions (mm)	Weight (kg)
4000	4000	3000 x 2100 x 800	2700

### Trasformatore bT/MT 2000kVA

Model	Power (kVA)	Dimensions (mm)	Weight (kg)
2000	2000	3000 x 2100 x 800	2700

### Trasformatore bT/MT 1500kVA

Model	Power (kVA)	Dimensions (mm)	Weight (kg)
1500	1500	3000 x 2100 x 800	2700

### Trasformatore bT/MT 1000kVA

Model	Power (kVA)	Dimensions (mm)	Weight (kg)
1000	1000	3000 x 2100 x 800	2700

### Trasformatore bT/MT 500kVA

Model	Power (kVA)	Dimensions (mm)	Weight (kg)
500	500	1800 x 2100 x 800	1745

### Trasformatore bT/MT 300kVA

Model	Power (kVA)	Dimensions (mm)	Weight (kg)
300	300	1800 x 2100 x 800	1745

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Progetto definitivo per la realizzazione di un impianto Agri-Fotovoltaico denominato "Apricena Agricola" da realizzare su aree agricole ricadenti nella "Solar Belt" delle aree a destinazione industriale, artigianale e commerciale e cave nella località "Podere Camilli - San Giovanni - Corrado", nel territorio comunale di Apricena (FG) per una potenza complessiva di 88,529 MWp ed immissioni di 70,4 MW, nonché delle opere connesse ed infrastrutture indispensabili alla costruzione ed all'esercizio dell'impianto nei comuni di Apricena (FG) e San Severo (FG).

AUTORITÀ PROCEDENTE V.A.: REGIONE PUGLIA - MINISTERO DELL'AMBIENTE E DELLA SICUREZZA INDUSTRIALE  
AUTORITÀ PROCEDENTE A.U.: REGIONE PUGLIA

Progetto Definitivo: C76\_ElaboratiGrafici\_09.pdf  
Destinatario: Grafo e blocchi della distribuzione generale lato AC

Rev.	Data	Descrizione	Elaborazione	Verifica	Approvazione
00	Gen 2023	Progetto definitivo	Ing. M. Pomilio	Ing. A. Mezzana	AM ENERGY 2 S.R.L.