TWIN SKID

UTILITY SCALE SOLAR STATION

TURN-KEY SOLUTION

HIGH RELIABILITY

EASY TO INSTALL

OUTDOOR DURABILITY

THE MOST POWER DENSE TURN-KEY STATION FOR LARGE SCALE PV PLANTS

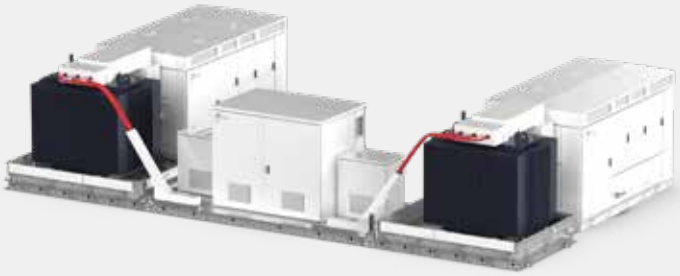
The Twin Skid has been designed to meet the requirements of large scale PV power plants. The station is a compact outdoor skid made of high resistance galvanized steel with all the medium voltage equipment integrated and acco panied by a inverter: protection cell, outdoor power transformer, oil tank and filter. This turnkey solution achieves power outputs between 4250 kVA and 7600 kVA.

The Twin Skid simplifies the project design of the PV plant, reducing the cost of installation and the amount of resources needed thanks to its extra high power density.

CUSTOMIZED SOLUTIONS

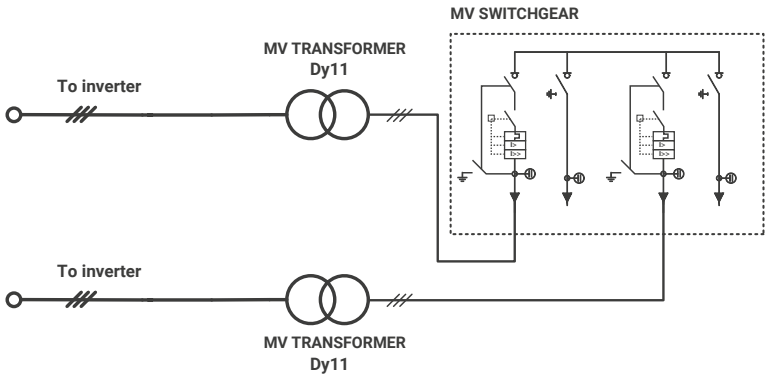
High value power plant projects often require customer specific solutions. Our team of highly experienced engineers are available to modify our standard solution to suit your specific demands to ensure you get the product you need.

I-TWIN SKID



U-TWIN SKID

OPERATIONAL DIAGRAM



TECHNICAL CHARACTERISTICS

TWIN SKID

MEDIUM VOLTAGE EQUIPMENT	Rated power range @50°C [1]	4250 kVA - 7340 kVA
	Rated power range @40°C	4400 kVA - 7600 kVA
	MV voltage range	6.6 kV / 11 kV / 13.2 kV / 15 kV / 20 kV / 22 kV / 23 kV / 25 kV / 30 kV / 33 kV / 34.5 kV
	LV voltage range	600 V / 615 V / 630 V / 645 V / 660 V / 690 V
	Type of tank	Hermetically oil-sealed
	Cooling	ONAN
	Vector group	Dy11
	Transformer protection	Protection relay for pressure, temperature (two levels) and gassing. Monitoring of dielectric level decrease. PT100 optional.
	Oil retention tank	Integrated with hydrocarbon filter
	Transformer index of protection	IP54
	Switchgear configuration	Double feeder (2L)
	Switchgear protection [1]	Automatic circuit breaker (2V)
CONNECTIONS	Inverter AC connection	Close coupled solution (Plug & Play)
	LV protection	Circuit breaker included in the inverter
	HV AC wiring	MV bridge between transformer and protection switchgear prewired
ENVIRONMENT	Ambient temperature [2]	-10°C...+50°C (T>50°C power derating)
	Maximum altitude (above sea level)	Customizable
	Relative humidity	4% to 95% non condensing
MECHANICAL CHARACTERISTICS	Skid dimensions (WxHxD) mm [3]	11220 x 2340 x 2240
	Skid weight with MV equipment [1]	< 21 Tn
	Oil retention tank material	Galvanized steel
	Skid material	Galvanized steel
	Cabinet type	Outdoor
	Anti-rodent protection	✔
AUXILIARY SERVICES ELECTRICAL PANEL	Auxiliary supply [1]	400 V (3-phase), 50/60 Hz
	User power supply available	5 kVA / 20 kVA / 40 kVA
	Cooling	Air
	Protection	Circuit breaker
	Cabinet type	Outdoor
	Communication [4]	Ethernet (fiber optic or RJ45)
	UPS system [5]	1 kW (30 minutes) - 20 kW (20 minutes)
OTHER EQUIPMENT	Safety mechanism	Interlocking system
	Safety perimeter	Transformer access protection fence
	Backfeed tracker suppy	Optional
	Emergency lighting	1h autonomy
	Fire extinguishing system (transformer accessory)	Optional
	LV revenue grade meter	For inverter output / for customer auxiliary supply
	I/O interface	Digital I/O, analog I/O
STANDARDS	Compliance	IEC 62271-212, IEC 62271-200, IEC 60076, IEC 61439-1

[1] Depending on customer configuration.
[2] For lower temperatures, consult Power Electronics.
[3] 2515 mm high with the cover for the LV terminals.
[4] By demand.
[5] Optional. For additional information of available configurations, consult Power Electronics.