



# 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

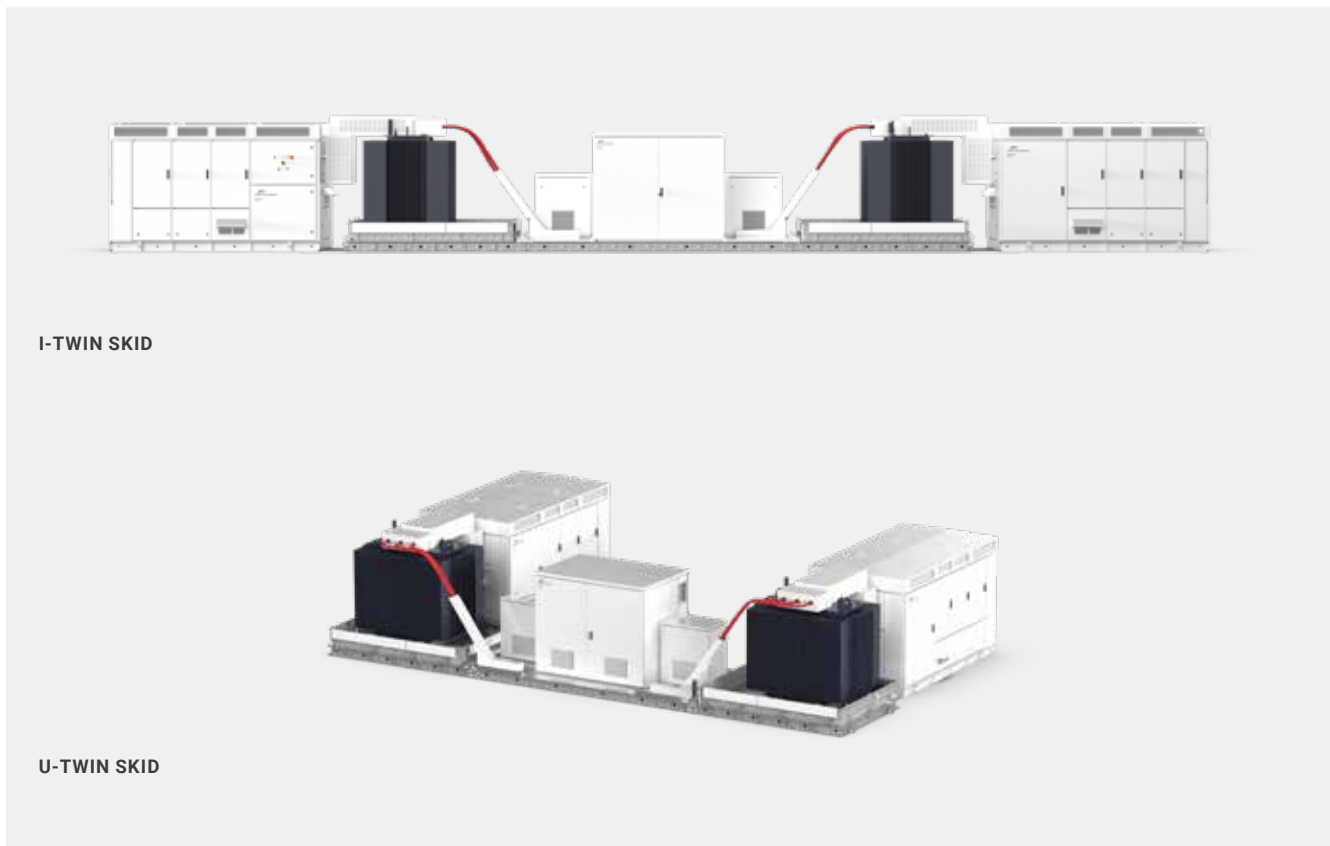
The Twin Skid has been designed to meet the requirements of large scale PV power plants. The station is a compact outdoor skid made of high resistance galvanized steel with all the medium voltage equipment integrated and accompanied by an inverter: protection cell, outdoor power transformer, oil tank and filter. This turnkey solution achieves power outputs between 3000 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

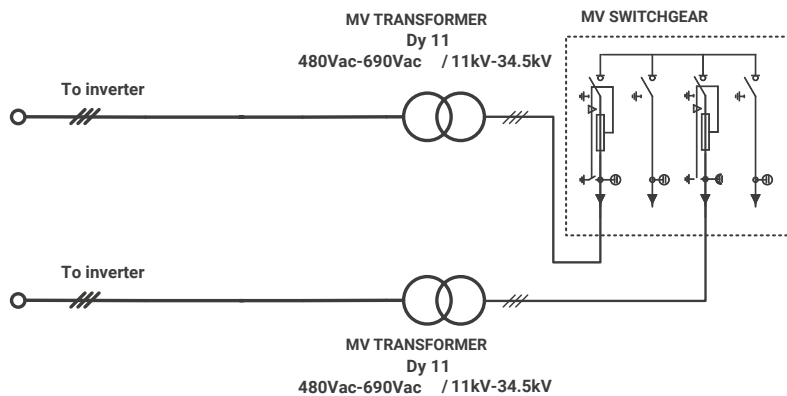
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High value power plant projects often require customer specific solutions. Our team of highly experienced engineers are available to modify our standard solution to suit your specific demands to ensure you get the product you need.



## OPERATIONAL DIAGRAM

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## TECHNICAL CHARACTERISTICS

## TWIN SKID

<b>MEDIUM VOLTAGE EQUIPMENT</b>	Rated Power range <sup>[1]</sup>	3000kVA - 7600kVA	
	MV Voltage range	11kV / 20kV / 22kV / 23kV / 33kV / 34.5kV	
	LV Voltage range	480 / 500 / 530 / 600V / 615V / 630V / 645V / 660V / 690V	
	Type of tank	Oil-sealed	
	Cooling	ONAN (KNAN optional)	
	Vector Group	Dy11	
	Transformer protection	DGPT-2 (PT100 optional)	
	Oil tank	Integrated with valve and filter	
	Transformer protection rate	IP54	
	Switchgear configuration	Single feeder (L) or Double feeder (2L)	
	Switchgear protection <sup>[1]</sup>	Fuses (2P) / Automatic circuit breaker (2V)	
	<b>CONNECTIONS</b>	Inverter AC connection	Close couple solution (Plug & Play)
		LV protection	Circuit breaker included in the inverter
HV AC wiring		MV Bridge between transformer and protection switchgear prewired	
<b>ENVIROMENT</b>	Ambient Temperature	-20°C...+50°C (t>50°C power derating)	
	Extended Temperature <sup>[2][3]</sup>	-35°C...+50°C (t>50°C power derating)	
	Max. Altitude (above sea level)	>2000m power derating	
	Relative Humidity	4% to 95% Non condensing	
<b>MECHANICAL CHARACTERISTICS</b>	Skid Dimensions (WxHxD) mm <sup>[1]</sup>	8000 x 2340 x 2235 / 11000 x 2340 x 2235	
	Skid weight with MV equipment <sup>[1]</sup>	< 21 Tn	
	Oil tank material	Galvanized steel	
	Skid Body material	Galvanized steel	
	Cabinet type	Outdoor	
	Anti-rodent protection	✓	
	<b>AUXILIARY SERVICES ELECTRICAL PANEL</b>	Rated Power (Voltage)	30kVA / 40kVA / 50kVA (3x400V)
		Cooling	Air
Protection		Circuit breaker	
Cabinet type		Outdoor	
<b>AUXILIARY OUTDOOR TRANSFORMER</b>	Rated Power (Voltage)	30kVA / 40kVA / 50kVA (3x400V)	
	Cooling	Air	
	Protection	Circuit breaker	
	Cabinet type	Outdoor	
<b>LV COMPACT CABINET</b>	Additional indoor auxiliary transf. <sup>[4]</sup>	10kVA / 25kVA / 40kVA / 50kVA (3x400V)	
	UPS system for monitoring <sup>[4]</sup>	1kVA / 3kVA, 10 minutes	
	Cooling	Air forced	
	Auxiliary supply protection	✓	
	Cabinet type	Outdoor	
<b>LV LARGE CABINET</b>	Additional indoor auxiliary transf. <sup>[4]</sup>	25kVA / 40kVA / 50kVA (3x400V)	
	UPS for trackers <sup>[4]</sup>	20kVA / 40kVA, 10 minutes	
	Cooling	Air forced	
	Auxiliary supply protection	✓	
	Cabinet type	Outdoor	
<b>OTHER EQUIPMENT</b>	Safety mechanism	Trapped key safety interlock	
	Safety perimeter	Transformer access protection fence	
	Cabinet heating	Heating resistors	
	Interior lighting	Fluorescent lamp	
	Emergency lighting	Electronic supplier for emergency lighting (1h autonomy)	
	Air conditioner	UPS batteries cooling	
	Communication <sup>[4]</sup>	Splice box / MV Switchgear monitoring	
<b>STANDARDS</b>	Medium Voltage	IEC 62271-212, IEC 62271-200, IEC 60076, IEC 61439-1	

[1] Depending on customer configuration.

[2] Optional. For additional information or available configurations, please consult Power Electronics.

[3] Other temperature range, consult Power Electronics.

[4] By demand.