



TWIN SKID

UTILITY SCALE SOLAR STATION



TURN-KEY SOLUTION



HIGH RELIABILITY



EASY TO INSTALL



OUTDOOR DURABILITY

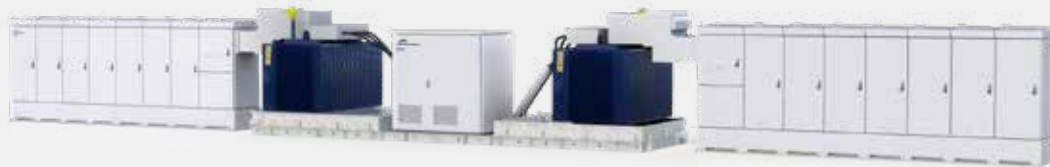
THE MOST POWER DENSE TURN-KEY STATION FOR LARGE SCALE PV PLANTS

The Twin Skid has been designed to meet the requirements of large scale PV power plants.

The solar station is a compact outdoor skid made of high resistance galvanized steel with all the medium voltage equipment integrated and accompanied by a solar inverter: protection cell, outdoor power transformer, oil tank and filter. This turnkey solution achieves power outputs between 3000kVA and 7600kVA with the HEC and HEMK solar inverter series. 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.

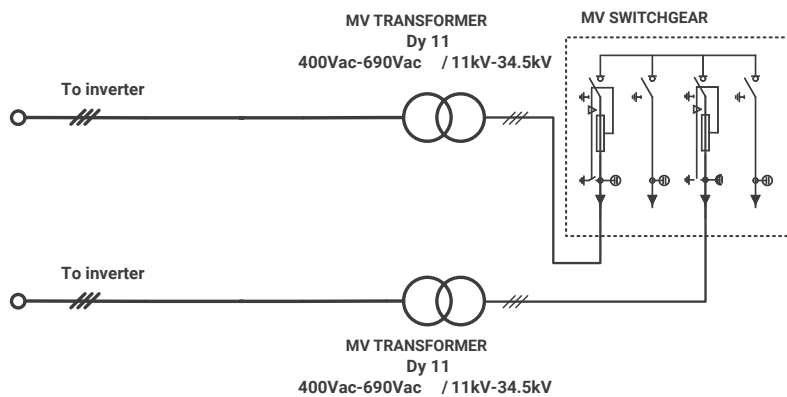


I-TWIN SKID



U-TWIN SKID

OPERATIONAL DIAGRAM



TECHNICAL CHARACTERISTICS

TWIN SKID

MEDIUM VOLTAGE EQUIPMENT	Rated Power range ^[1]	3000kVA - 7600kVA	
	MV Voltage range	11kV / 20kV / 22kV / 23kV / 33kV / 34.5kV	
	LV Voltage range	400V / 420V / 440V / 460V / 480V - HEC V1000 inverters 565V / 600V / 615V / 630V / 645V / 660V / 690V - HEC V1500 and HEMK inverters	
	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 ^[1]	Fuses (2P) / Automatic circuit breaker (2V)	
	CONNECTIONS	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	
ENVIROMENT	Ambient Temperature	-20°C...+50°C (t>50°C power derating)	
	Extended Temperature ^{[2][3]}	-35°C...+50°C (t>50°C power derating)	
	Max. Altitude (above sea level)	>2000m power derating	
	Relative Humidity	4% to 95% Non condensing	
MECHANICAL CHARACTERISTICS	Skid Dimensions (WxHxD) mm ^[1]	8000 x 2340 x 2235 / 11000 x 2340 x 2235	
	Skid weight with MV equipment ^[1]	< 21 Tn	
	Oil tank material	Galvanized steel	
	Skid Body material	Galvanized steel	
	Cabinet type	Outdoor	
	Anti-rodent protection	✓	
	AUXILIARY SERVICES ELECTRICAL PANEL	Rated Power (Voltage)	30kVA / 40kVA / 50kVA (3x400V)
Cooling		Air	
Protection		Circuit breaker	
Cabinet type		Outdoor	
AUXILIARY OUTDOOR TRANSFORMER	Rated Power (Voltage)	30kVA / 40kVA / 50kVA (3x400V)	
	Cooling	Air	
	Protection	Circuit breaker	
	Cabinet type	Outdoor	
LV COMPACT CABINET	Additional indoor auxiliary transf. ^[4]	10kVA / 25kVA / 40kVA / 50kVA (3x400V)	
	UPS system for monitoring ^[4]	1kVA / 3kVA, 10 minutes	
	Cooling	Air forced	
	Auxiliary supply protection	✓	
	Cabinet type	Outdoor	
LV LARGE CABINET	Additional indoor auxiliary transf. ^[4]	25kVA / 40kVA / 50kVA (3x400V)	
	UPS for trackers ^[4]	20kVA / 40kVA, 10 minutes	
	Cooling	Air forced	
	Auxiliary supply protection	✓	
	Cabinet type	Outdoor	
OTHER EQUIPMENT	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 ^[4]	Splice box / MV Switchgear monitoring	
STANDARDS	Medium Voltage	IEC 62271-202, 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.