

SOLAR

Smart PV

Utility-scale solutions



Photovoltaic Inverter (PVI)

Complete inverter stage solutions for large-scale PV plants with advanced control and power regulation capacities to meet any technical requirement.

Adapted to any market needs due to a flexible power operation range. With an easy integration to the grid and low power consumption, they are able to work at maximum power at extreme ambient conditions.

Shaping the energy of tomorrow

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ENERGY

	PVI REFERENCES	PVI-3M-WD3-V690	PVI-3M-WD3-V620	PVI-3M-WD3-V530
AC	Nominal AC voltage [Vac] (1)	690 ±15%	620 ±15%	530 ±15%
	Rated AC power [kW/kVA] @ 95°F/35°C @Vdc min (2)	4.761	4.349	3.717
	Rated AC power [kW/kVA] @ 122°F/50°C @Vdc min (2)	4.266	3.897	3.331
	Maximum output current @ 95°F/35°C @Vdc min (2)	4.591	4.536	4.465
	Total Current Demand Distortion (TDD)	<3%		
	Power factor (3)	Adjustable		
	Efficiency Maximum / Euroeta / CEC [%] (4)	98,6 / 98,3 / 98,5 (5)	98,5 / 98,3 / 98,4 (5)	98,5 / 98,3 / 98,4 (5)
DC	MPP Voltage range @ full power [Vdc] (2)	987-1250	887-1250	758-1250
	Max. DC voltage [Vdc]	1500		
	Number of MMPT Inputs	3		
	Rated input current at Vdc_min [A] @35°C	3 x 1600		
	Rated input current at Vdc_min [A] @50°C	3 x 1440		
	Max. Short circuit input current [A] (6)	3 x 4800		
	Number of DC Inputs	3 Busbar with up to 12		
COMMON FEATURES				
Protections	General AC Protection & Disconn	AC circuit breaker		
	General DC Protection & Disconn	DC load break switch		
	DC Overvoltage Protection	SPD (type 2)		
	Ground-fault monitoring	Yes		
	Insulation monitoring	Yes		
	Lightning protection	Optional (SPD type 1+2)		
	DC Input protection (7)	Fuses		
Cabinet	Dimensions [WxDxH]	5212 x 2190 x 2460 mm		
	Weight	~7 tn		
	Type of Ventilation	Forced air cooling		
Environment	Degree of Protection (8)	IP65		
	Operation ambient temperature	From -4°F to 140°F (-20°C to 60°C), derating >95°F (35°C)		
	Maximum relative humidity	100%		
	Max. altitude above sea level	4000 masl, derating >1000 masl		
	Storage and transport temperature	From -40°F to 149°F (-40°C to 65°C)		
	Storage and transport humidity	From 5% to 85%		
Certifications & Standards (9)	IEEE 1547-2018, UL 1741 – SA & SB, IEC 62477 IEC 62109-1, IEC 62109-2, IEC62109 IEC 61000-3-4, IEC 61000-3-11, IEC 61000-3-12, IEC 61000-6-4 IEC 60529 CE Marking NEC Compliance			
Notes	(1) Other voltage configurations are possible under request. (2) Values at nominal AC voltage and $\cos\phi=1$, f=60Hz. Consult for derating curves. (3) Consult for capability curves. (4) Self-consumption is not considered in the efficiency measurement. (5) Depending on the transformer model required, standby losses and auxiliary power consumption may vary. (6) Higher values under request (7) Different DC fuse sizes are available (8) Lower proteccion -IP54- is also available (9) Other applicable standards/grid codes are possible			