



Powering Business Worldwide

Eaton PVI-10kW Three-phase Solar Inverter



Eaton 10kW three-phase PV Grid-Connected Inverter

Features

- Transformerless design
- Euro efficiency $\geq 95\%$ at nominal DC input
- Islanding detection methods: passive and active
- MPPT efficiency $> 99\%$
- Firmware update capability
- GFCI (Ground Fault Current Interrupter) embedded
- Lead-free, RoHS compliant
- 3 independent MPP trackers
- Wide voltage input range
- Wide power input range
- Graphic data logger
- Daily and weekly graphs



Daily graph



Weekly graph

Compliance of Standards

EMC

DIN EN 61000-6-3 (VDE0839-6-3, EMV-interference emission) (class B)
 DIN EN 61000-6-2 (VDE 0839-6-2, EMV-interference immunity)

Grid Interference

DIN EN 61000-3-2
 DIN EN 61000-3-3

Grid Monitoring

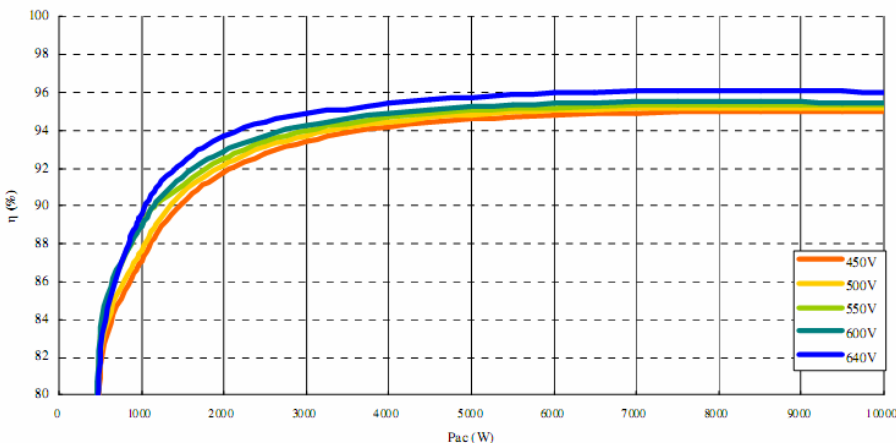
Independent disconnection device (MSD, Mains monitoring with allocated Switching Devices) according to VDEW; EN DIN VDE 0126-1-1 (2006.02)

Low Voltage Regulation

DIN EN 50178 (4.98) (VDE 0160) (IEC62103)

Efficiency

The PVI-10kW is converting the solar energy from the solar modules in a highly efficient way to grid power. The typical efficiency chart related to V_{DC} and P_{AC} is as shown below.



For enquiries please contact:



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Model PVI-10kW	
Nominal AC output power	10000W
Max. AC output power	11000W
Input	
Nominal DC voltage	640VDC
Maximum PV power / Tracker	5500W per tracker
Maximum PV open voltage	800 VDC
Maximum load rated voltage range	320V to 720Vdc
MPPT voltage range	245V to 720Vdc
Operating voltage range	200V to 800Vdc
Max. input current / Tracker	13 ADC per Tracker
Type of connection	Three strings with MC-4 type connectors
Output	
Operational voltage	400Vx3 , -20% +15%
Operational frequency	50/60Hz , auto selection
AC-current max	17.5A _{RMS} (under 11000W)
Nominal AC-current	14.5A _{RMS} (under 10000W)
AC wiring system	3-phase, 4 wire
Current distortion	< 3%
Power factor	~1
Conversion efficiency (max)	> 96.5%
European efficiency	> 95%
System	
Protection degree	Chassis: IP65; fan: IP55
Operational temperature range	-20 to 55°C
Continuous Output Power temperature range	-20 to 40°C
Humidity	0 to 95%, non-condensing
Heat Dispersal	Force air cooling, variable fan speed depending on power and ambient temperature
Manufacturing process	Lead-free, meet RoHS
Acoustic noise level	< 50dBA (typ.)
Communication & Features	
Display	128X64 Graphic LCD
Comm. Interfaces	Standard RS-232, Type A to mini-B USB Cable, and optional RS-485
F/W upgrade	Yes, via RS-232
Mechanical	
WxDxH (mm)	590x460x163
Weight (kg)	38.2kg
*This inverter is only suitable for silicon modules. Thin film modules are not recommended.	
*The product's specifications are subject to change without prior notice.	

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