

Eaton ETN10K[®]

10kW - 3 Phase PV Grid Connect Inverter

Features:

- Transformer-free design
- Euro efficiency $\leq 95\%$ at nominal DC input
- Islanding detection methods: passive and active
- MPPT efficiency $> 99\%$
- Firmware update capability
- GFCI embedded
- Lead-free, RoHS compliant
- 3 MPP trackers
- Removable graphic data logger
- Complies with Australian Standards



Powering Business Worldwide



Eaton ETN10K¹

10kW - 3 Phase PV Grid Connect Inverter

Specifications

model Eaton ETN10K	
Nominal DC voltage	640 V
Max. PV open voltage	800V
System start-up voltage	260 V
Initial feeding voltage	350 V
Shutdown voltage	200V typical
Working voltage range	200V ~ 800V
Full load rated voltage range	320 ~ 720 V
MPPT voltage range	245 ~ 720 V
MPPT efficiency	> 99%
Number of MPP trackers	3
Max. DC current per tracker	13A
Max. power per tracker	5500W
DC voltage ripple	< 10%
DC insulation resistance	>5MΩ
Nominal AC power	10kW
Max. AC power (in 10 minutes)	11kW
Nominal voltage	400 V x 3
Operational voltage range (@ 230 V)	200~270V
Disconnection time of excess operational voltage range	≤ 2 seconds
Nominal frequency	50Hz
Operational frequency range	45~55Hz
Disconnection time of excess operational frequency range	≤ 2 seconds
AC wiring system	3-phase 4 wire
Nominal AC current	14.5 A /per phase

model Eaton ETN10K	
Max. AC current	17.5 A /per phase
O/P current distortion (THD i)	< 3%
Power Factor	> 0.99
Max. conversion efficiency	96.5%
Euro-efficiency ²	95% @ nominal input
Topology	transformer-free
Power consumption: standby / night	< 30W / < 3.5W
Heat dissipation	Air force cooling, variable fan speed control according to temperature on heatsink
Operating temperature range	-20 ~ +55
Continuous full power temperature range	-20 ~ +40°C
Humidity	0 to 95%
Storage humidity	0 to 95%
Altitude	Up to 2000m without power derating
Re-connecting time after disconnection	60 seconds
Communication	RS-232 standard RS-485 optional
Hazard substance restriction	Lead free, compliant with RoHS GP2
RS-485 Protocol	Standard protocol, Eaton proprietary protocol
Chassis Dimension W×D×H	459 x 164 x 590 mm
Net Weight	40.2 kg
Gross weight	46 kg
Protection degree	Chassis: IP65, Fan: IP55

Warranty: standard 5 year back-to-base warranty applies. Extended warranty is available at additional cost.

1. The inverter is only suitable for use with silicon modules. Thin film is not recommended.
2. Euro-efficiency: according to EN61683-1991, the minimum value is 94.05%.