

Hybrid Energy 10.0

Three phase on-grid hybrid inverter with Energy Storage



Efficiency

This high performance hybrid inverter has an efficiency of more than 96 % to deliver the maximum power.

Programmable

You can choose how you want the hybrid inverter to priority the produced energy. You can choose between the PV, Battery or Grid

200 A battery charger

This hybrid inverter has an user adjustable charging current, up to 200A

Monitoring

Monitoring software for real time status display and control

Self-consumption

The hybrid inverter can be used as either a normal inverter or store the energy to the battery bank

Communication

The Hybrid Energy 10.0 has multiple communication for USB, RS-232, Modbus SNMP and CAN interface

Multiple working modes

Programmable multiple operations modes: On grid, Off grid, and On grid with backup

Build-in timer

Built-in Timer for various mode of on/off operation

Technical specifications of the Hybrid Energy 10.0

More information's on our website www.sunto.dk

PARAMETER	HYBRID ENERGY 10.0
PHASE	3-phase in / 3-phase out
RATED OUTPUT POWER	10000 W
ON GRID	
DC INPUT	
Max DC input power	14850 Watt
Nominal DC voltage / Max DC voltage	720 V / 900 V
Turn-on voltage / initial feeding voltage	320 V / 350 V
MPP voltage range	400 V ~ 800 V
MPP trackers / Max input current	2 / 2 x 18.6A
AC OUTPUT	
Nominal output voltage	230 V (P-N) / 400 V (P-P)
Output voltage range	184 - 265 V per phase
Maximum output current	13 A per phase
Power Factor	> 0.99
EFFICIENCY	
Max. efficiency	> 96%
Euro efficiency	> 95%
HYBRID	
DC INPUT	
Nominal DC voltage / Max DC voltage	720 V / 900 V
Turn on voltage / initial feeding voltage	320 V / 350 V
MPP voltage range	400 V ~ 800 V
MPP trackers / Max input current	2 / 2 x 18.6A
AC INPUT	
Turn on voltage / Auto restart voltage	120 - 140 V per phase / 180 V per phase
Input Voltage Range	170 - 280 VAC per phase
Max AC input current	25 A
AC OUTPUT	
Nominal output voltage	230 V (P-N) / 400 V (P-P)
Output voltage range	184 - 265 V per phase
Maximum output current	13 A per phase
BATTERY AC MODE	
Nominal output voltage	230 V (P-N) / 400 V (P-P)
Efficiency	91%
Nominal DC voltage	48 V
Max charging current (Adjustable)	100 A - 200 A

Additional technical specifications of the Hybrid Energy 10.0

More information's on our website www.sunto.dk

OFF GRID	
DC INPUT	
Max DC voltage	900 V
MPP voltage range	400 V ~ 800 V
MPP tackers / Max input current	2 / 2 x 18.6A
AC INPUT	
Turn on voltage / Auto restart voltage	120 - 140 V per phase / 180 V per phase
Input Voltage Range	170 - 280 VAC per phase
Max AC input current	25 A
BATTERY AC MODE	
Nominal output voltage	230 V (P-N) / 400 V (P-P)
Output waveform	Pure Sine wave
Efficiency	91%
GENERAL INFORMATIONS	
ENVIROMENT	
Humidity (RH)	0 ~ 90% (No condensing)
Operating Temperature -10 to 55°C	-10 to 55°C
Altitude	0 ~ 1000 m*
PHYSICAL INFORMATION	
Communication port	RS-232/USB and CAN Interface
Intelligent Slot	Optional SNMP, Modbus, and AS-400 cards available
Net weight (kg)	45
Dimension, D X W X H (cm)	62,2 x 50,0 x 16,8
Warranty	5 years
APPROVAL	
APPROVED BY ENERGINET (DENMARK)	Februar 2015
APPROVED BY BUREAU VERITAS	VDE-AR-N 4105
APPROVED BY BUREAU VERITAS	CE

* Every 100 m when altitude is over 1000m, the power is derating 1%