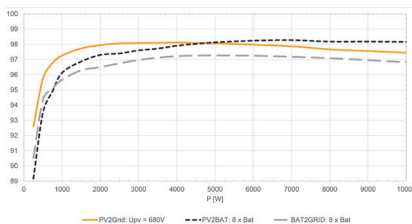


CENTURIO 10 Hybrid-Inverter



the control center of your electrical self-consumption solution is
CENTURIO 10 Hybrid Inverter

The PV modules, the DOMUS 2.5 energy storage system,
the Vectis and the public power grid are connected to it.

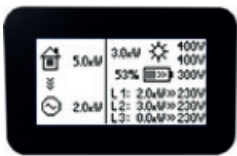


HIGHLIGHTS

- 3-phase 10 kW Hybrid-Inverter
- 2 integrated MPP Tracker
- Fast (<200ms) and independent load control for each individual phase
- High efficiency:
 - PV → Grid = >98%
 - PV → Battery = >97%
 - Battery → Grid = >97%
- Pure Sinewave
- Integrated Battery Management System (BMS) for DOMUS 2.5
- Operating modes: Mains operation, compensation operation and stand-alone operation (battery operation)
- Automatic switchover to emergency power operation in the event of a power failure (Optional)
- Aluminum housing (light & rustproof)
- Quiet - No fan, no noise
- All connections are Plug & Play

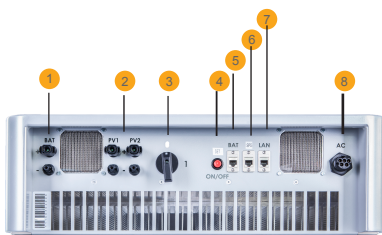
DISPLAY

Clear LCD display with the most important information about your system.



Connectors

- 1 x DC Connection for battery with automatic disconnection
- 2 x DC Connection for PV
- DC Disconnector
- Set-Button for LCD-Menu control
- BMS Communication connection RJ45
- Vectis Communication connection RJ45
- LAN Communication connection RJ45
- AC Connection for Grid- and OFF-Grid



VECTIS / HY- SWITCH

- Energy consumption recording to optimize self-consumption
- All-pole disconnection from the public power grid in the event of a power failure
- and set-up of an island system
- Integrated current sensors up to 50A
- 3 x 3.5mm jack connection for expandability with external current sensors up to 100A
- VECTIS / Hy-Switch Communication connection RJ45



CENTURIO 10 Hybrid-Inverter

CENTURIO 10 Hybrid Inverter

Article number CE010211AB

Power Conversion	PV (DC) to Grid (DC)	Yes
	PV (DC) to Battery (DC)	Yes
	Grid (AC) to Battery (DC)	Yes
	Battery (DC) to Grid (AC)	Yes
PV Input (DC)	Max. power per input	6'000 W
	Numbers of MPP Trackers	2
	Nom./ max. DC Voltage	680 VDC/900 VDC
	Start-up voltage	240 VDC
	MPP voltage range	420 VDC – 850 VDC
	Max. input current per MPP Tracker	12 A
	Max. short-circuit current I _{sc}	15 A per input
	Overload behaviour	Shift of working point
Battery mode AC-Connection	Nominal charge power	9'990 W
	Nominal discharge power	9'990 W
	Voltage shape in off-grid mode	True Sinus
	Number of current phases	3
	Idle state consumption	20 W
	Night-time consumption	<0.1 W
	Overload behaviour	current limitation
	Switch off in case of overload	After 5 Seconds
Battery mode Input DC)	Nom. DC Voltage	425 V DC
	Max. charge- and discharge current	25 A
	Min. Battery capacity	5 kWh
	Min. Battery Voltage	96 V DC
	Max. Battery Voltage	450 V DC
	Galvanic isolation	No
	Safe guarding	Safety fuse, cut-off relay
Grid feed in (AC)	Nom. Power AC	9'990 W
	Max. Power AC	11'000 VA
	Number of Phases	3
	Max. Power per Phase at Grid	3'333 W
	Nom. AC Voltage	210 – 264 V AC
	AC Voltage range	184 – 264 V AC
	Grid frequency	47.5 Hz – 51.5 Hz
	Power factor	0.9c – 0.9i
	Topology	Transformerless
	Feed-in	Sym. / Asym.
	Max. AC Current per Phase	16.1 A RMS
	Max. AC fault current	16.1 A RMS
	Max. AC OFF grid current per phase	17.5 A RMS
	AC Voltage in OFF-grid mode	230 V RMS
	AC Frequency in OFF-grid mode	52.0 Hz
	Load compensation	<200 ms
	Max. Compensation of DC part	1 A
	Power in OFF-grid mode (optional)	max. 4.000 W per Phase and max. 10.000W Phase sum

Efficiency	PV (DC) to Grid (C) [max.]	>98%
	PV (DC) to Grid (AC) - European efficiency	>97.5%
	PV (DC) to Battery (DC) [max.]	>97%
	Battery (DC) to Grid (AC) [max.]	>97%
Supported Devices	Energy storage	DOMUS 2.5 u.a.
	Measurement and grid disconnect	VECTIS/Hy-switch-Series
Connections	DC Connector for Battery with automatic cut-off point	PhoenixContact Sunclix
	DC Connection for PV	PhoenixContact Sunclix
	AC Connection for Grid- and OFF-grid operation	5-Pol PhoenixContact, Art.-Nr. 1409205
	AC Connector max. cable diameter	4 mm ²
	Communication ports	2 x RJ45 (RS485) 1 x RJ45 (Ethernet)
General Data	Dimension (WxHxD)	610 x 552 x 200 mm
	Weight	37 kg
	Housing	Korrosions-beständig
	Display	LCD
	DC Disconnecter	integrated
	RC Protective Device	integrated (Typ B)
	Battery Management System	Integrated for DOMUS
	Noise emission	<35 dB(A)
	Operating temperature range	+5° bis +40°C
	Humidity	20 – 90% RH (non condensing)
	Protection class (IEC 62109-1)	I
	DC Overvoltage category (IEC 60664-1)	II
	AC Overvoltage category (IEC 60664-1)	III
	Certificate	VDE0126, VDE AR-N 4105
	Warranty	5 Years
	Over temperature behaviour	Power reduction
	Switching frequency	20 kHz
	Selbstgeführt / Netzgeführt	Netzgeführt
	Power supply	DC
	Power source for charging mode	PV, Grid
	Housing	Corrosion-resistant
	Protection class (IEC 60529)	IP20
	Pollution degree	PD2
	WEEE-Reg.-Nr.	DE31599193

The current official data sheet of Energy Depot Swiss GmbH applies.