SUNGROW
Clean power for all

COM100E

Smart Communication Box

FLEXIBLE NETWORKING

- Support of RS485, Ethernet, WLAN and Wi-SUN communication
- Support of energy meter, meteo station, sensors and other equipment

CONVENIENT O&M

- Inverter batch parameter settings and firmware updates
- PV Plant maintenance via remote Web access for optimized OPEX
- Active and reactive power control
- Local monitoring

EASY OPERATION

- Night light for maintenance
- Robust enclosure, easy to install



Type designation	COM100E
Communication	
Max. number of devices	30
RS485 interface	3
Ehthernet	1×RJ45, 10/100 Mbps
Digital input	5, Max. 24 Vdc
Analog input	4, support 4 ~ 20 mA or 0 ~ 10 Vdc
EyeW485 Host Module(optional)	1，24Vdc
I/O Module(optional)	1，4×DI，2×PT100/PT1000,2×AI(0~10V),2×DO，24Vdc
Wireless communication	
WLAN communication	802.11 b/g/n/ac HT20/40/80 MHz 2.4GHz / 5GHz
Wi-SUN communication(optional)	Band：860~928 MHz
Power supply	
AC input	100 Vac ~ 300 Vac, 50 / 60 Hz
Power consumption	Typ. 20 W, Max. 30 W
Night light for maintenance	<1 W
Ambient conditions	
Operating Temperature	-30 °C ~ 60 °C
Storage Temperature	-40 °C ~ 70 °C
Relative air humidity	≤95 % (non-condensing)
Elevation	≤4000 m
Protection class	IP66
Mechanical parameters	
Dimensions (W x H x D)	460 mm × 315 mm × 126 mm
Weight	6 kg
Mounting type	Wall mounted,Bracket mounted,Pole mounted, outdoor and indoor
Box material	PC
Cable specification	AC cable: outdoor UV protection cable of 1~1.5 mm², outside diameter 13~18mm RS485 cable: outdoor UV protection shielded twisted pair (STP) of 0.75~1.5 mm², outside diameter 6~18mm Ethernet: CAT5 cable, outdoor UV protection shielded, outside diameter 6~18mm AI, DI: outdoor UV protection cable of 0.75 mm², outside diameter 4.5~6mm
Ordering information	
COM100E	The COM100E includes Logger1000, AC adapter, SPD, Air switch, Night light. Support of Ethernet , WLAN, I/O Module(optional) and Wi-SUN(optional) communication. Apply to Global.

EyeW485 host module needs to be used with EyeW485 to realize wireless 485 automatic network in the area.

© 2022 Sungrow Power Supply Co., Ltd. All rights reserved. Subject to change without notice. Version 11

COM100D-EU

The COM100D-EU Smart Communication Box integrates the hardware and software functions of Logger1000A-EU, supporting various networking connection possibilities. It is a highly reliable package with dedicated SPDs and IP66, suitable for outdoor installation



FLEXIBLE NETWORKING

- Supports RS485, Ethernet, 4G, WLAN communication
- Supports energy meter, environmental sensors and multiple inverters

CONVENIENT O&M

- Inverter batch parameter settings and firmware updates
- PV Plant maintenance via remote Web access for optimized OPEX
- Active and reactive power control

EASY OPERATION

- Night light for maintenance
- Robust enclosure, easy to install

© 2024 Sungrow Power Supply Co., Ltd. All rights reserved. Subject to change without notice. Version 4

SUNGROW
Clean power for all

Technical parameters	COM100D-EU
Basic data	
Supported device number	Max. 30
Communication	
RS485 interface	3
Ethernet	1 * RJ45, 10/100/1000 Mbps
Digital input	5, Max. 24 Vdc
Analog input	4, support 4 mA - 20 mA or 0 Vdc - 10 Vdc
SIM Card *	Micro-Sim (15 mm * 12 mm)
Operation band	LTE (FDD): B1 / B3 / B7 / B8 / B20 / B28A LTE (TDD): B38 / B40 / B41 GSM: B3 / B8
WLAN	802.11 a/b/g/n/ac, HT20/40/80 MHz, 2.4 GHz / 5 GHz
4G antenna	On-board antenna
Power supply	
AC input	100 Vac - 277 Vac, 50 Hz / 60 Hz
DC output	24 ± 0.72 VDC, 0.5 A
Power consumption	Typ. 30 W, Max. 40 W
Night LED for O&M	< 1 W
Ambient conditions	
Operating temperature	-30 °C - 60 °C
Allowable relative humidity range	0 % - 95 %, non-condensing
Max. operating altitude	4000 m
Protection class	IP66
Mechanical parameters	
Dimensions (W * H * D)	460 mm * 315 mm * 126 mm
Weight	4.9 kg
Installation	Wall mounted, Bracket mounted, Pole mounted, outdoor and indoor
Standard compliance	
EMC and Radio	CE, UKCA

* Please refer to the user manual for further instructions and information on compatible SIM card providers

© 2024 Sungrow Power Supply Co., Ltd. All rights reserved. Subject to change without notice. Version 4