

APPLY HERE THE WIRELESS **IDENTIFICATION LABEL**

Otherwise, the protections guaranteed by the inverter may be affected

In addition to the information given below, it is mandatory to read and observe the safety information and installation instructions shown in the installation manual. The technical documentation and the interface and management software for the product are available on the website.

The equipment must be used in accordance to what is described in this Quick Installation Guide



Transportation and relocation

Lifting

The transportation of the device, in particular via land transportation, must be made with adequate means and ways to protect the parts from violent impacts, humidity, vibrations, etc.

ans used for lifting must be suitable to bear the weight of the equipment

Weight of the equipment components

15 kg Unpacking and inspection

The packaging components must be removed and disposed of according to the applicable regulations of the country where the device is installed. Upon opening the packaging, check the integrity of the equipment and verify that all the components are

If you notice defects or deterioration, stop the operations and call the carrier, as well as inform ABB Service

warranty.

Always store the Quick Installation Guide, all the supplied accessories and the AC connector cover in a safe place



cm

20

cm

IIIII NO

10 cm

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Шок

10 cm

∭∭ОК

M5 contact washers for the external

Шок

Place and position of installation

- Do not install the inverter where it is exposed to direct sunlight. If necessary, use protection that minimizes the exposure, especially for ambient temperatures above 40°C/104°F

- Do not install in small unventilated spaces where the air cannot circulate freely. Always ensure that the airflow around the inverter is not blocked to prevent
- Do not install near flammable substances (minimum distance 3 m/10 ft) Do not install on wooden walls or other flammable substances.
- Do not install inside residential premises or where a prolonged presence of people or animals is planned, due to the acoustic noise that the inverter produces during operation. The noise emission value is strongly influenced by the installation $% \left(1\right) =\left(1\right) \left(1\right) \left($ location (e.g. type of surfaces around the inverter, general properties of the ro etc.) and the quality of electricity supply. Install on a solid wall or structure that is suitable to support the weight of the
- equipment.
- Install in an upright position with a maximum inclination as shown in the figure Respect the minimum distances indicated. Choose a location that allows enough space around the unit to allow easy installation and removal of the equipment from
- the mounting surface.

 Where possible, install at eye level for easy viewing of the display and the LEDs.
- Install at a height that takes into account the weight of the equipment.

 When installing multiple inverters, position the inverters side by side while
- maintaining the minimum distances (measured from the outer edge of the inverter):
- if the space available does not allow this provision, position the inverters in a
- staggered layout, as indicated in the figure, in order to make sure that the heat
- dissipation is not affected by the other inverters.

 All installations at altitudes above 2,000 m/6,500' must be assessed on a case by case basis with ABB Service to determine the proper derating of the input

The final installation of the inverter must not compromise the access to any disconnection devices located outside. Refer to the warranty conditions to evaluate the possible exclusions related to an improper installation.

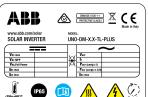
5. Quantity Components supplied with the inverte Components supplied with the inverter (Spare part) T20 screw for front cover 1 Bracket for wall fixing M5x10 screw for the external ground



Watertight connector for the AC cable

Technical documentation configuration of the input channels

The labels on the inverter show the markings, main technical data and the identification of the equipment and of the manufacturer



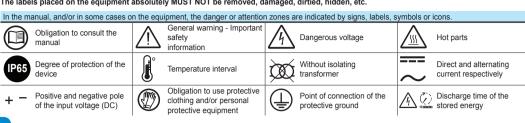
UNO-DM-X.X-TL-PLUS SO:SXXXXXXXX Q1

Product Label (In case of a service password available (SN: YYWWSSSSSS))

SN WLAN: SSSSSSSSS SN Inverter: ZZZZZZZZZZ Mac Address: AA:BB:CC:DD:EE:FF

Wireless Identification Label (The label is divided in request, it is necessary to have the serial number two separate parts by a dashed line; take the bottom part and apply it on the cover of this quick installation guide)

The labels placed on the equipment absolutely MUST NOT be removed, damaged, dirtied, hidden, etc.

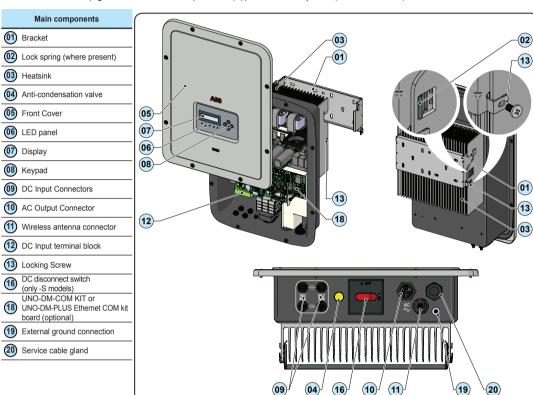


The inverter models referred to in this installation guide are available in six power capacity systems: 1.2kW, 2.0kW, 3.0kW, 3.3 kW, 4.0 kW, 4.6 kW and 5.0 kW.

For each model, the following variants are available (suffix could be combined):

- Models with "B" suffix (e.g. UNO-DM-3.3-TL-PLUS-B). Models equipped with Wireless communication
 Models with "S" suffix (e.g. UNO-DM-3.3-TL-PLUS-S). Models equipped with DC disconnecting switch.
- Models with "E" suffix (e.g. UNO-DM-3.3-TL-PLUS-E). Models equipped with Wireless communication and Accessory Board equipped with Ethernet board (UNO-DM-PLUS-COM Etherner KIT).

 Models with "X" suffix (e.g. UNO-DM-3.3-TL-PLUS-X). Models equipped with Accessory Board (UNO-DM-COM KIT).



Do not open the inverter in case of rain, snow or high humidity (>95%). During the installation, do not place the inverter with the front cover ® facing the ground.
Install the inverter by following this procedure:
• Place the bracket ® level on the wall and use it as a drilling template.

 The selection of the appropriate number and distribution of the anchors is the responsibility of the installer. The choice must be made according to the type of wall, frame or other type of support, and should be sized considering a total load of more than 4 times the weight of the inverter (total 4x15=60 kg total). Depending on the type of anchor chosen, drill the holes required for the fixing of the bracket (Figure (a)).

• Fix the bracket to the wall or structure.

· Carefully lift the inverter and hook it onto the bracket by inserting the two

Proceed to anchor the inverter (Figure (a)).

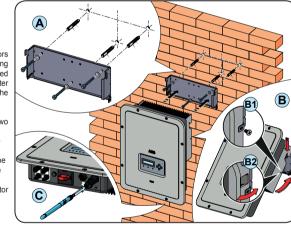
Proceed to anchor the inverter (Figure (b)).

Proceed to anchor the inverter to the bracket by installing the two (one each side) locking screws (Figure (b)).

If on the bracket are present the lateral lock springs, proceed to lock the

inverter by pressing the lower part toward the wall or structure until the two springs on the bracket set the inverter in position (Figure 1991).

Install wireless antenna by screwing it into the dedicated connector located on the bottom part of inverter 1 (Figure 6).



inverter. The access to the internal zones of the inverter must be carried out after a m

• The main connections are made on the lower part (outside) of the inverter. To install the accessories and make the necessary connections, unscrew the 8 screws using a TORX T20 key and open the front cover (6); while removing the screws, pay special attention since additional screws are not supplied

Caution! It is necessary to hold the front cover during the removal of screws to avoid the cover falling (the front cover is not secured to the inverter's chassis).

· After making the connections, close the cover by tightening the 8 screws on the front, while respecting the sequence and

Check the correct polarity of the input strings and the absence of earth leakages of the PV generator. When the PV panels are exposed to sunlight, they provide a continuous voltage (DC) to the inverter. Access to the internal inverter zones must be carried out with the equipment disconnected from the grid and from the PV generator.

Caution! The inverters referred to in this document are WITHOUT AN ISOLATION TRANSFORMER (transformer-less). This type involves the use of PV panels of an isolated type (IEC61730 Class A Rating) and the need to maintain the PV generator floating with respect to earth; no generator pole must be connected to the ground.

If multiple strings are connected to the same input, they must have the same type and number of panels in series. ABB also recommend they have the same orientation and inclination.

· Observe the maximum input current with respect to quick-coupling connectors. Refer to "String inverters Product manual appendix" document available on the site www.abb.com/solarinverters, to find out the make and model of the quick-coupling connector used on the inverter. Depending on the model of the connectors installed on your inverter, it will be necessary to use the same model for the corresponding counterparts (by checking the

manufacturer's website or via ABB for the compliant counterpart). The use of non-compliant counterparts with respect to the quick-coupling connectors models present on the inverter, may cause serious damage to the unit and result in the immediate

Connect the DC input, always checking the tightness of the connectors.

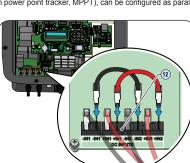
 Versions of the inverter which are equipped with two independent input channels (i.e. dual maximum power point tracker, MPPT), can be configured as parallel (i.e. single MPPT).



This configuration is set at the factory and involves the use of the two input channels (MPPT) in an independent mode. This means that the jumpers (supplied) between the positive and negative poles of the two DC input channels (2) must not be installed, and that the independent channel mode should be set during the commissioning phase, in the dedicated section of the internal webserver "SETTINGS > SETUP DC SIDE > INPUT MODE" or through the inverter display menu "SETTINGS> INPUT MODE"

Configuring Input Mode to Parallel

This configuration involves the use of the two input channels (MPPT) connected in parallel. This means that the jumpers (supplied) between the positive and negative poles of the two DC input channels (12) must be installed, and that the parallel channel mode should be set during the commissioning phase, in the dedicated section of the internal webserver "SETTINGS > SETUP DC SIDE > INPUT MODE" or through the inverter display menu "SETTINGS> INPUT MODE".



Differential sensitivity

10.

UNO-DM-2.0 UNO-DM-3.0 UNO-DM-3.3 UNO-DM-4.0 UNO-DM-4.6 Type Circuit breaker with differential magnetic-thermal protection 16 A 16 A 25 A 32 A Nominal current 10 A Magnetic protection feature Number of poles Type of differential protection A/AC

ABB declares that the ABB high frequency inverter without a transformer are not manufactured to inject continuous currents of ground fault, and therefore, the differential installed downstream of the inverter, type B according to IEC 60755/A 2, is not required.

300 mA

Characteristics and sizing of the line cable

The cable should be three-pole. The section of the AC line conductor must be sized in order to avoid unwanted disconnections of the inverter from the distribution network due to high impedances of the line that connects the inverter to the point of supply of electricity.

ine conductor	Maximum length of the line conductor (m)								
cross-section	UNO-DM-1.2	UNO-DM-2.0	UNO-DM-3.0	UNO-DM-3.3	UNO-DM-4.0	UNO-DM-4.6	UNO-DM-5.0		
1.5 mm ²	18 m	10 m	6 m	6 m	5 m	4 m	- m		
2.5 mm ²	22 m	15 m	11 m	11 m	10 m	8 m	6 m		
1 mm ²	40 m	25 m	19 m	19 m	16 m	13 m	10 m		
6 mm²	56 m	38 m	29 m	29 m	24 m	20 m	16 m		

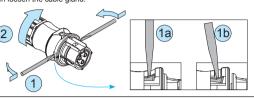


The values are calculated in nominal power condition considering:
1. a power loss along the line of not more than 1%.
2. copper cable used, with HEPR rubber insulation and placed in open air

Caution! Before performing the operations described below, make sure that you have properly disconnected the AC line downstream of

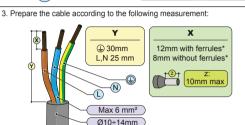
For the grid connection of the inverter, 3 connections are needed; ground, neutral and phase. The ground connection of the inverter is mandatory, The connection of the network cable to the inverter is performed by means of the dedicated AC output connector (10), by doing the following:

1. Remove the connector head by pressing on the two retaining clips and then loosen the cable gland.

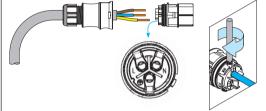




≥4D

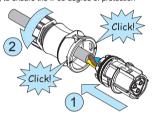


4. Install the individual wires (phase, neutral and ground) on the connector head according to the instructions printed on each of the three terminals



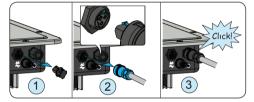
(*): Use properly crimped ferrules only on stranded wire with a conductor section values between 1.5 - 4 mm²

5. Close the connector and tighten the cable gland respecting the tightening torque (4+1 Nm) to ensure the IP65 degree of protection



6. Remove the pre-installed protective cap on the inverter.

Insert the counterpart in the AC output connector (1) while taking care to align the references (present in both connectors) that preent connection errors



To maintain the IP protection rating of the inverter, it is mandatory to install the counterpart with the AC cable connected or the protective cap, on the AC output connector. In addition, the connector must not be subjected to tensile forces (examples: do not connect weights to the AC cable, do not leave excess wire hanging, etc.).

The ABB inverters are equipped with a display @7, consisting of 2 lines of 16 characters each, which can be used to:

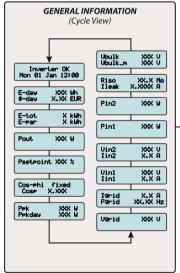
- View the operating status of the inverter and the statistical data

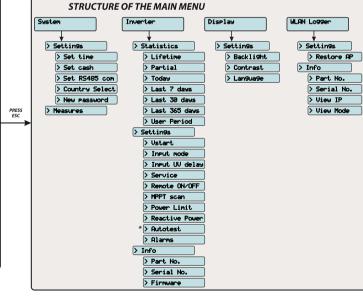
View service messages for the operator View alarm and fault messages

- Change the inverter settings

13.

During the normal operation of the inverter, the display cycles through the **GENERAL INFORMATION**. This information relates to the input and output parameters and the inverter identification parameters. By pressing **ENTER** it is possible to block automatic scrolling on a screen so that it is locked to this screen. Press ESC to access the main menu, which is structured as follows:





Quick fit PV connector

Class A

Yes, from a current limited source

According to local standard

600 V/25 A

Display menu may differ from previous structure depending on firmware installed in the inverter. Firmware version can be displayed accessing to the display menu Inverter > Info > Firmware.



DC connection type
Type of PV panels connect
with Standard IEC 61730

Photovoltaic array insulation control DC disconnect switch characteristics

(version with DC disconnect switch)

Input protection verse polarity protection

s connected in input in accordance

Input overvoltage protection for each MPPT- Varistors

Refer to the manual for details regarding use and functions available in the menu and for details regarding alarm and fault messages.

4	4.									
4	4.9	UNO-DM-1.2	UNO-DM-2.0	UNO-DM-3.0	UNO-DM-3.3	UNO-DM-4.0	UNO-DM-4.6	UNO-DM-5.0		
a	Input									
al Data	Absolute maximum input voltage (V _{max,abs})	600 V								
	Input activation voltage (V _{start})	120 V (adi. 100150V)	150 V (adj. 100250 V)	150 V (adj. 100250 V)	200 V (adi. 120350 V)	200 V (adi. 120350 V)	200 V (adj. 120350 V)	200 V (adi. 120350 V)		
<u>ပိ</u>	DC input voltage operating range (V _{dcmin} V _{dcmax})	0.7xV _{start} 580 V (min 90 V)								
u	Rated input DC voltage (V _{dcr})	185 V	300 V	300 V	360 V	360 V	360 V	360 V		
chn	Rated input DC power (Pdcr)	1500 W	2500 W	3300 W	3500 W	4250 W	4750 W	5150 W		
Te	Number of independent MPPTs	1	1	1	2	2	2	2		
	Maximum Input power for each MPPT (PMPPTmax)	1500 W	2500 W	3300 W	2000 W	3000 W	3000 W	3500 W		
Features and	DC input voltage range (VMPPT min VMPPT max) with parallel configuration of MPPT at Pacr	100530 V	210530 V	320530 V	170530 V	130530 V	150530 V	145530 V		
	DC power limitation with parallel configuration of MPPT	N/A	N/A	N/A	Linear derating from Max to Null [530V≤VMPPT≤580V]					
	DC power limitation for each MPPT with independen		N/A	NI/A	2000 W [200V≤VMPPT≤530V]	3000 W [190V≤VMPPT≤530V]		3500 W [200V≤VMPPT≤530V]		
	configuration of MPPT at Pacr , max unbalance example	N/A	N/A	N/A	other channel: Pdcr-2000W [112V≤VMPPT≤530V]	other channel: Pdcr-3000W [90V≤VMPPT≤530V]	other channel: Pdcr-3000W [90V≤VMPPT≤530V]	other channel: Pdcr-3500W [90V≤VMPPT≤530V]		
	Maximum DC input current (Idcmax) / for each MPPT (IMPPTmax	a) 10 A	10 A	10 A	20.0 A/10.0 A	32.0 A/16.0 A	32.0 A/16.0 A	38 A/19.0 A		
	Maximum return current (AC side vs DC side) < 5 mA (In the event of a fault, limited by the external protection on the AC circuit)									
	Maximum short circuit current (Isc max) / for each MPP		12.5 A	12.5 A	12.5 A / 25.0 A	20.0 A / 40.0 A	20.0 A / 40.0 A	22.0 A / 44.0 A		
	Number of input DC connection pairs for each MPPT				1					

LED and KEYS, in various combinations, may display the status conditions or perform complex actions to be explored by consulting the product manual

LEDs ®			(06) (07)
POWER	Green	Solid when the inverter is working correctly. Flashes when checking the grid or if there is insufficient sunlight.	
COMM	Multicolor	Operation status of wireless communication line.	
ALARM	Yellow	The inverter has detected an anomaly. The anomaly is shown on the "EVENTS" section of the internal webserver and on the display.	
RSSI	Multicolor	Quality of the wireless communication signal.	POWER COMM ALARIM RSSI GFI
GFI	Red	Ground fault on the DC side of the PV generator. The error is shown on the "EVENTS" section of the internal webserver and on the display.	SIALUS
Kove (18)			

Used to access the main menu, to go back to the previous menu or to go back to the previous digit to be edited ESC Used to scroll upwards the menu options or to shift the numerical scale in ascending order DOWN Used to scroll downwards through the menu options or to shift the numerical scale in descending order ENTER Used to confirm an action, to access the main menu or the submenu for the selected option (indicated by the > symbol) or to switch to the next digit to edit.

12.

max. 6 mm²

Ø10÷14mm

Before proceeding with commissioning, make sure you have carried out all the operations and checks indicated in the previous sections of this quick installation guides, and verify that the inverter cover (®) was properly closed!

Commissioning and configuration of the inverter can be made using a wireless capable device such as a smartphone, tablet or laptop

- 1. Set the inverter's DC disconnect switch 📵 (for -S version) or any external DC switches to "ON" position: If the input voltage applied to one of the two input channels is greater than the minimum starting voltage, the inverter will start up.

 The inverter is powered ONLY by the voltage coming from the photovoltaic generator: the presence of grid voltage alone IS NOT SUFFICIENT to allow the inverter to power up.
- Enable Wireless on the device that is being used for the inverter commissioning (tablet, smartphone or PC) and connect it to the Access Point created by the inverter: a network with the name ABB-XX-XX-XX-XX-XX will appear in the list of networks, where "X" is a hex digit of the MAC address (MAC address can be found on the "Wireless Identification Label" placed on the side of the inverter or previously applied to this quick installation guide - see cover page).
- 3. When prompted, type the "product key" (including the dashes. Example: 1234-1234-1234) as the network password to access the inverter's access point. The product key is printed on the "wireless identification label" on the side of the inverter 4. Open the internet browser (recommended browser: Chrome versions from v.55, Firefox versions from v.50, Safari versions from v.10.2.1) and enter the pre-
- set IP address to access the configuration wizard page: 192.168.117.1 5. A configuration wizard will open, consisting of a sequence of steps in which all the required fields must be completed correctly (language of the wizard can be selected in the upper status bar). The steps and information required by the configuration wizard are:
- STEP 1 Set the Administrator/User login credentials (minimum 8 character for password). User and password are CASE SENSITIVE

STEP 2 (OPTIONAL) - Enter the required information (IP selection mode, SSID and Password) to connect the inverter to the residential wireless network with "Station Mode" (Note: This step can be skipped to continue operating with the point-to-point connection "AP mode"). Once the inverter is connected to the wireless network, a new message will provide you the IP Address assigned by the router to the inverter that can be used each time you want to access the internal webserver. TAKE NOTE OF THEM.

STEP 3 - Set the Date, Time and Time zone (The inverter will propose these fields when available).

STEP 4 - Set the inverter country standard, Input channel configuration and Meter configuration (if installed). Clicking the "END" button the wizard will be completed (after confirmation the inverter will reboot).



From the moment that the grid standard is set, you have 24 hours to make any changes to the value, after which the "Country Select" functionality is blocked and the remaining time will have to be reset in order to have the 24 hours of operation available again. To select a new grid standard follow the procedure "Resetting the remaining time for grid standard variation" described in the product manual.

6. Set the external AC disconnect switch downstream to the inverter to "ON" position. Once both AC and DC switches are closed and the wizard commissiong procedure is finished, the inverter starts the grid connection sequence: the inverter performs the grid voltage check, measures the photovoltaic generator insulation resistance against earth and carries out other self-diagnosis checks. During the checks before the parallel with the grid, the "Power" LED keeps flashing, the "Alarm" and "GFI" LEDs are off. If there is not sufficient sunlight to connect to the grid, the inverter will repeat the connection procedure until all the parameters are within range

If the preliminary checks for parallel connection to the grid are successful, the inverter connects to the grid and begins to export power to the grid. The "Power" LED remains fixed on while the "Alarm" and "GFI" LEDs are off



Refer to the product manual for further information about the configuration and the use of the functionality of the internal Webserver. Commissioning and configuration of the inverter can also be done with the display @. Consult the product manual for more information

	_								
Е	•	UNO-DM-1.2	UNO-DM-2.0	UNO-DM-3.0	UNO-DM-3.3	UNO-DM-4.0	UNO-DM-4.6	UNO-DM-5.0	
	Output								
Data	AC connection type				Single phase				
a	Nominal output AC power (Pacr@cosφ=1)	1200 W	2000 W	3000 W	3300 W	4000 W	4600 W	5000 W	
므	Maximum output AC power (Pac max@cosp=1)	1200 W	2000 W	3000 W	3300 W	4000 W (2)	4600 W	5000 W	
Technical	Maximum apparent power (S _{max})	1200 VA	2000 VA	3000 VA	3300 VA	4000 VA (2)	4600 VA	5000 VA	
.2	Nominal output AC voltage (Vacr)				230 V				
٥	Output AC voltage range (Vac minVac max)								
ᇴ	Maximum AC output current (Iac max)	5.5 A	10.0 A	14.5 A	180264 Vac ⁽³⁾	17.2 A (2)	20.0 A	22.0 A	
٥	Maximum fault current	0.074	10.0 A		25 A rms (100 m		20.074	22.07	
Ξ.	Short circuit current contribution	10.0 A	12.0 A	16.0 A	16.0 A	19.0 A	22.0 A	24.0 A	
and	rush current Negligible								
a	Nominal output frequency (f _r)				50 / 60 Hz (4)				
S	Output frequency range (f _{min} f _{max})			47	753 / 5763 Hz	z ⁽⁴⁾			
2	Nominal power factor and adjustability interval			> 0.995;	0.1 – 1 Over/Un	der excited			
2	Total harmonic current distortion				< 3.5%				
Features	AC connections type			Par	nel female conne	ctor			
ш	Output Protection								
	Anti-islanding protection			Acco	rding to local sta	ndard			
	Maximum external AC overcurrent protection	10.0 A	16.0 A	16.0 A	20.0 A	25.0 A	25.0 A	32.0 A	
	Output overvoltage protection - Varistor				2 (L - N / L - PE)				
	Operational Performances								
	Maximum efficiency (η _{max})	94.8%	96.7%	96.7%	97.0%	97.0%	97.0%	97.4%	
	Weighted efficiency (EURO/CEC)	92.0% / -	95.0%/-	95.0%	96.5%/-	96.5%/-	96.5%/-	97.0%/-	
	Power threshold of the power		,		8.0 W				
	Nighttime consumption				< 0.4 W				
	Communication				Mirologo (5)				
	Embedded Communication Interface Wireless (8) Embedded Communication Protocol ModBus TCP (SunSpec)								
	Commissioning tool				ace, Display, Auro				
	Firmware Update Capabilities				ocally and remote				
	Monitoring		Plant F		r, Plant Viewer, P		obile (7)		
	Optional board UNO-DM-COM kit				,				
	Optional Communication Interface	RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay, Remote ON/OFF							
	Optional Communication protocol		,	ModBus RT	U (SunSpec), Au	rora Protocol			
	Optional board UNO-DM-PLUS Ethernet COM kit								
	Optional Communication Interface	Ethernet, R	S485 (use with r	neter for dynamic	c feed-in control),	Alarm/Load mar	nager relay, Rem	ote ON/OFF	
	Optional Communication protocol		ModBus	TCP (SunSpec)	, ModBus RTU (S	SunSpec), Aurora	Protocol		
	Environmental								
	Ambient temperature range				+60°C /-1314				
	Ambient temperature derating	above	above	above	above	above	above	above	
		50°C/122°F	50°C/122°F	50°C/122°F	50°C/122°F	50°C/122°F	40°C/104°F (8)	45°C/113°F	
	Relative humidity Typical noise emission pressure	0100% condensing							
	Maximum operating altitude without derating	< 50 dB(A) @ 1 m ⁽⁹⁾ 2000 m/6560 ft							
	Classification of environmental pollution								
	degree for the external environment				3				
	Environmental category				Outdoor				
	Physical								
	Environmental protection degree				IP 65				
	Cooling system				Natural				
	Dimensions (H x W x D)			553 mm x 418 n	nm x 175 mm/21	.8" x 16.5" x 6.9"			
	Weight				15 kg/33 lb				
	Mounting system				Wall brackets				
	Overvoltage category in conformity with IEC 62109-1	Transformerless (TL)							
	Safety								
	Isolation level								
	Certifications CE, RCM Safety class I IEC/EN 62109-1, IEC/EN 62109-2, AS/NZS 4777.2, IEC/EN 62109-1, IEC/EN 62109-2, AS/NZ								
	Safety and EMC standard		, EN 61000-6-2,	EN 61000-6-3, E , EN 61000-3-3		EN 61000-6-1, I	EN 61000-6-2, EN N 61000-3-11, EN	N 61000-6-3, EN	
	Grid standard	Refer to "Update your inverter for new features" page on the ABB Solar website to know which country standard are available for your inverter model.							

Refer to the document "String inverter – Product Manual appendix" available at www.abb.com/solarinverters to know the brand and the model of the quick fit connector. For UK G83/2 grid standard, maximum output current limited to 16A up to a maximum output power of 3600W and maximum apparent power of 3600 VA.
The AC voilage range may vary depending on specific country grid standard.
The Frequency range may vary depending on specific country grid standard. CE, 50Hz only.

Note. The features that are not specifically mentioned in this data sheet are not included in the product

As per IEEE 802.11 b/g/n standard. Availble for custom version only.

Plant Viewer per Mobile availble remotely only, not for local commissioning Pacr = 4200 W @ 45° C/113°F. @ Pure sine wave condition

Contact us

UNO-DM-1.2_2.0_3.0_3.3_4.0_4.6_5.0-TL-PLUS-Quick Installation Guide EN-RevF

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