

6

295mm / 11.61' 220mm / 8.66" VE 3VC

(14) in

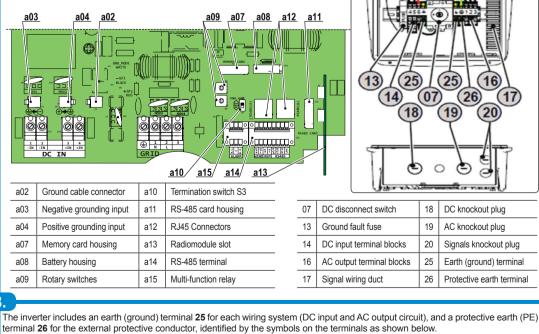
6 in

6 in

6 in

Group A holes are used for pole mount. Group B holes are used for wall mount. Position and level the bracket. Mark the holes appropriate to the type of mounting surface. Drill the holes required using a 10mm/0.39" bit; the holes must be about

70mm/2.75" deep. Fix the bracket to the poll/wall with the wall anchors, 10mm/0.39" in diameter,



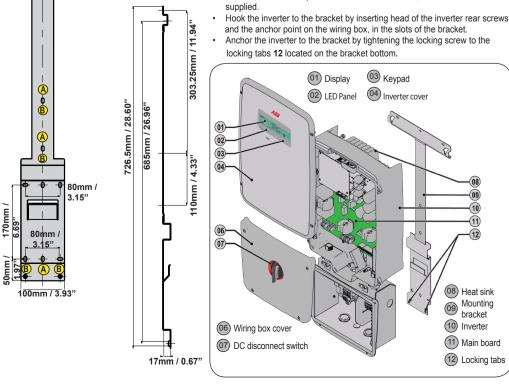
IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS-KEEP IN SAFE PLACE!

The installer must read this document in its entirety before installing or commissioning this equipment! The labels on the UNO inverter carry the markings, main technical data and identification of the equipment and manufacturer.



5.



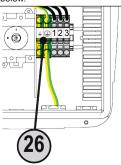
 ①12
① • 💿 25

8.

The earth (ground) connection terminal 25 is positioned inside the switchbox and connected as shown in the illustration at left.

The PE connection terminal 26 is positioned inside the switchbox and connected as shown in the illustration at riaht.

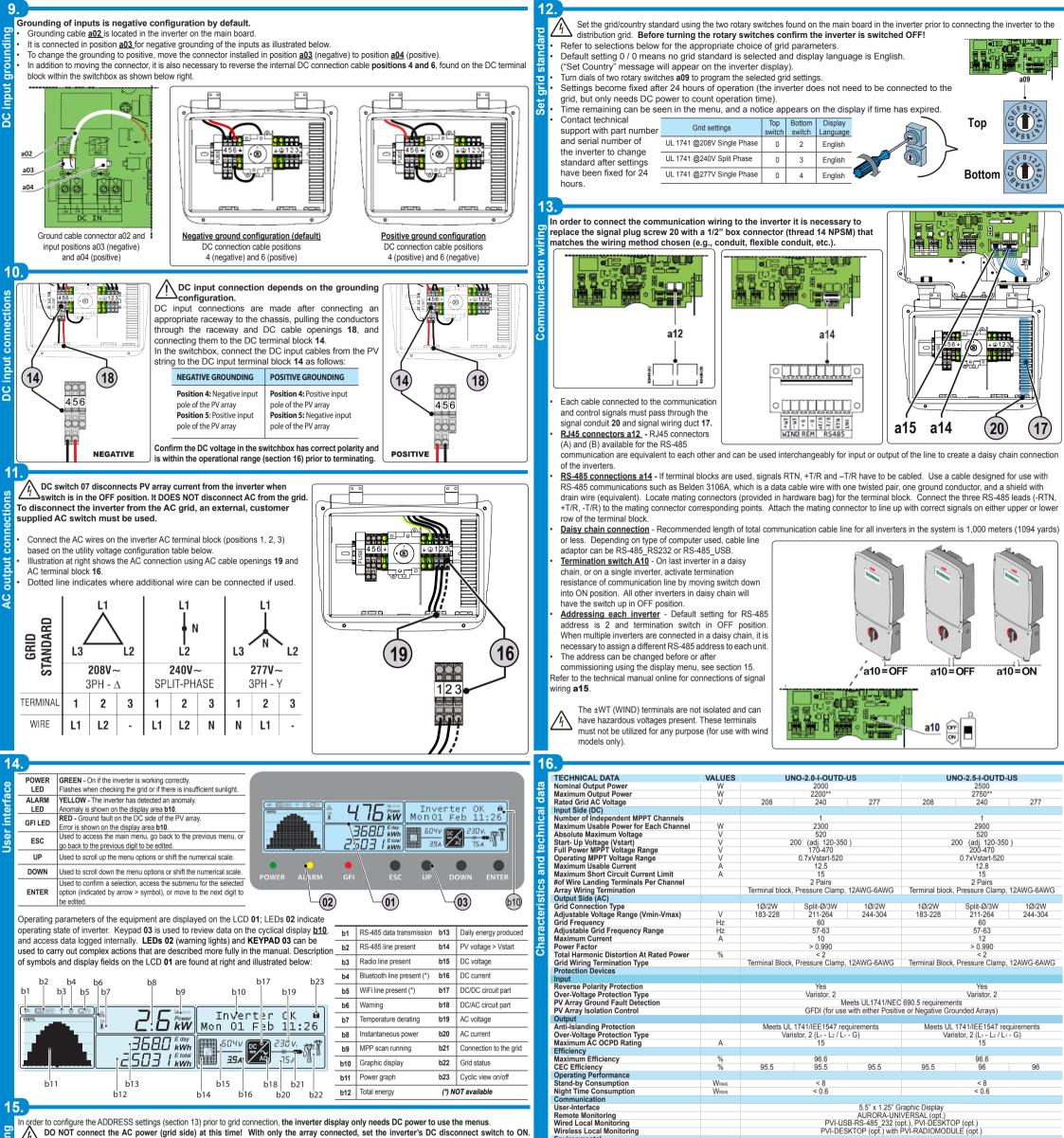
To prevent electrical hazards, all the connections must be carried out with the disconnect switch downstream of the inverter (grid side) open and locked out.



(16)

(20)

(17)



In order to configure the ADDRESS settings (section 13) prior to grid connection, the inverter display only needs DC power to use the menus. DO NOT connect the AC power (grid side) at this time! With only the array connected, set the inverter's DC disconnect switch

GREEN POWER LED will flash and YELLOW ALARM LED will be steady. The message "Missing Grid" will display in area b10. Press ESC to open the menus. Use the DOWN key to scroll to SETTINGS, and press ENTER. The SETTINGS menu requires an access password.

Upon selecting SETTINGS the password screen will open; the default password is 0000.

Pressing ENTER four times loads four zeroes on the display and opens the submenu.

Area b10 has two visible text lines and the UP and DOWN keys are used to scroll through the menu items.

- Arrow > on the left side of the display highlights the current selection.
- Press UP or DOWN keys to move the arrow to the desired selection and press ENTER to open the associated submenu.
- To return to the preceding menu, press the ESC key.

Address: the RS-485 address may need to be changed or assigned.

Default address is set at 2 for a single inverter.



Initializing

- Scroll to Address and press ENTER to open the submenu Address values are assigned manually using any value in the range 2 to 63.
- Press UP and DOWN keys to scroll through numbers and press ENTER to select, ESC to cancel
- Turn DC disconnect switch 07 to OFF in order to save the changes.

The procedure for start up is as follows:

Waiting Sun . . .

0***

Turn DC disconnect switch 07 to ON position.

Please wait If there are two separate external disconnect switches (one for DC and the other for AC), first close the AC disconnect switch and then the DC disconnect switch. There is no order of priority for opening the disconnect switches.

When the inverter has power, the first check performed relates to input voltage:

If DC input voltage is lower than Vstart voltage (voltage required to begin the inverter's grid connection) icon b14 remains off and the "Waiting sun" message is displayed in area **b10**.

If DC input voltage is higher than Vstart voltage icon b14 is displayed and inverter goes to next stage . Voltage levels and input current are displayed in the b15 and b16 fields.

The inverter performs a control of grid parameters. Icon b22 represents grid distribution and can display the following states: not present indicates AC voltage is absent, flashing indicates AC voltage is present but outside the parameters of the country of installation, steady ON - indicates AC voltage is present and within the parameters of the country of installation: this status starts grid connection sequence.

- If the input voltage and the grid voltage are within the inverter operating intervals, connection to the grid will begin.
- Icon b21 represents an electrical plug that is connected when the inverter is connected to the grid and a disconnected when not connected.

When the connection sequence is complete, the inverter indicates its correct operation by making a sound and by the green LED coming on steady on the LED panel. If the inverter signals any errors/warnings the messages and their codes will be indicated on the display. Refer to full technical manual on the website for Error and Warning Codes.

Environmental			
Ambient Air Operating Temperature Range	°F (°C)	-13 to +140 (-25 to +60) with automatic derating	-13 to +140 (-25 to +60) with automatic derating
Amplent An Operating Temperature Range	1(0)	above 122 (50)	above 113 (45)
Ambient Air Storage Temperature Range	°F (°C)	-40 to +176 (-40 to +80)	-40 to +176 (-40 to +80)
Relative Humidity	%	0-100 condensing	0-100 condensing
Acoustic Noise Emission Level	db (A) 1m	< 50	< 50
Maximum Altitude for Full Power Operation	ft(m)	6560 (2000)	6560 (2000)
Mechanical Specifications			
Enclosure rating		NEMA 4X	
Cooling		Natural Convection	
Dimensions (H x W x D)	in (mm)	30.3 x 14.4 x 6.3 (769 x 367 x 161) with switch	
Weight	lb (kg)	42.5 (19.3) with switch	
Mounting System		Wall bracket	
Conduit Connections***		Bottom: (2) 3/4" EKO , (3) 1/2" EKO / Left and Right Side: (1) 3/4" EKO / Back: (4) 3/4" EKO	
DC Switch Rating		16 A / 600 VDC	
Safety			
Isolation Level		High-Frequency Transformer	
Safety and EMC Standard		UL1741(2010), IEE1547, IEE1547.1, CSA C22.2 N. 107.1-01, FCC Part 15 Class B , UL1998 UL1699B	
Safety Approval		cCSAus	
Warranty			
Standard Warranty	years	10	10
Extended Warranty	years	15 & 20	15 & 20
Available Models			
Standard		UNO-2.0-I-OUTD-US	UNO-2.5-I-OUTD-US
With DC Switch and Wiring Box		UNO-2.0-I-OUTD-S-US	UNO-2.5-I-OUTD-S-US
*All data is subject to change without notice			

data is subject to change without notice

** Capability enabled at nominal AC voltage and with sufficient DC power available

*** When equipped with optional DC Switch and Wiring Box

Contact us

ww.abb.com/solarinverters

Wireless Local Monitoring

UNO-2 0-2 5-I-OUTD-S-US Quick Installation Guide BCM.00226.0 AA © Copyright 2014 ABB. All Rights Reserved Specifications subject to change without notice

