

# QUICK USER MANUAL

Quick manual contains only basic information about Solar Micro Inverter 260.

Each user must read and understand the User manual before any activity in full detail. User manual can be downloaded from the website [www.letrikasol.com](http://www.letrikasol.com).

All electrical installations must be performed in accordance with local and national electrical standards and codes. Solar micro inverter 260 must be installed only by technically qualified person.

## Disposal

The complete procedure after lifetime should comply with Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE). It is forbidden to deposit electrical and electronic equipment as municipal waste.

Solar Micro Inverter 260 is a micro- inverter designed to be connected to the PV module with up to 72 cells. The input of the inverter is low voltage (up to 60V and 10.5 A) , the output of the inverter generates the grid voltage ( 230V, 50Hz ) .


An integrated relay disconnects micro inverter from the network in case of errors. The micro inverter is activated when there is sufficient solar radiation and grid voltage is in accordance with the regulations.

The micro inverter has an aluminium housing. Low DC voltage input and AC voltage output are galvanically separated by reinforced insulation. The circuit board is potted in polyurethane mass which provides protection against environmental influences and good heat dissipation.


## Product code

AEI-1101-S-C70-P260-F50-U230- VDE-ALTW-G

AEI	Family name
1101	Family member
S	Input type – S is for solar photovoltaic DC input
C60	Cells on PV panel
P260	Output power 260W
F50	Output frequency 50Hz

 Dangerous voltage. All precautions and protections against high voltage electric shock should be taken.

 HOT SURFACE ! Danger of burns, do not touch product.




 Generic danger - Important safety information.

## Label information




The product is equipped with means of identification and tracking of the product. On the bottom of each device is label with the following information:

**SOLAR MICRO INVERTER 260**

P/N: 11.261.001 AEI1101  
S-C60-P260-F50-U230-VDE-ALTW-G

 <b>P<sub>max</sub>:</b> 310 Wp <b>U<sub>max</sub>:</b> 60 V <b>U<sub>MPP</sub>:</b> 21...55 V <b>I<sub>max</sub>:</b> 10.5 A <b>I<sub>sc max</sub>:</b> 12.5 A	 <b>U<sub>n</sub>:</b> 230 V <b>f<sub>n</sub>:</b> 50 Hz <b>S<sub>n</sub>:</b> 290 VA <b>P<sub>n</sub>:</b> 260 W <b>Q<sub>n</sub>:</b> 125 VAR <b>I<sub>n</sub>:</b> 1.15 A	
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IP67 -40...+65°C




 VDE-AR-N 4105  
 Made in Slovenia

U230	Output voltage 230Vac
VDE	Settings according to standard VDE 4105, CEI-021, EN 50438 or G83/2
ALTW	type of AC connector
G	for grid connection

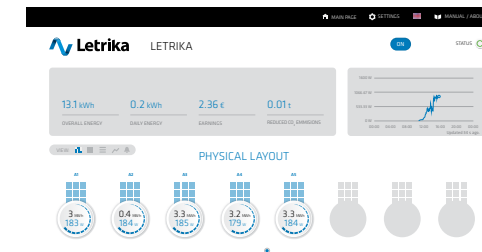
# SYSTEM COMPONENTS



Solar micro inverter



Communication gateway



Web application

Instructions for communication gateway and web application are not part of this quick user manual.

# INSTALLATION AND COMMISSIONING

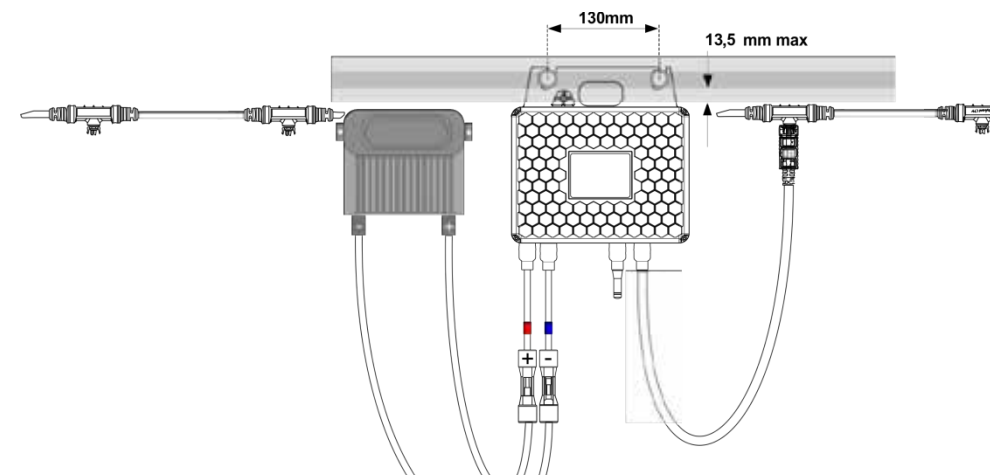
## Mounting

### Trunk cable system

- Mark the centre of each PV module on the mounting substructure
- Place the appropriate trunk cable (Amphenol LTW- see instructions for installation and use),
- T-connectors must be aligned with the markings on the substructure.
- Check what is the maximum allowed number of micro-inverters on each branch.
- Attach the connecting trunk cable with cable ties on substructure.

### Micro inverter

- Check that the data on the label correspond to those of the photovoltaic module and the grid.
- It must be at least 15 mm of space between the Micro Inverter and photovoltaic module and at least 20 mm between Micro inverter and the lower surface. This prevents overheating and power reduction.
- Before mounting the Micro Inverter, peel off the label with the serial number and paste it in the attached matrix depending on the mounting location.
- Install the mounting screws (M8x16) at marks on the supporting substructure at intervals of 130 mm and fit the housing by tightening the screws to a torque of 6 Nm.



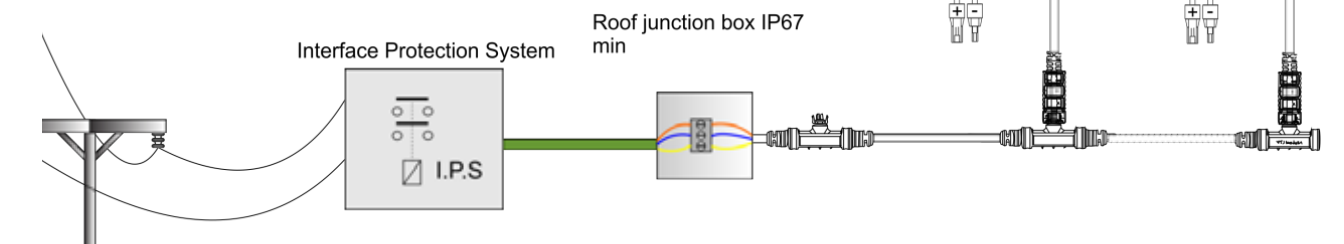
## Electrical installation

### DC installation

- DC connectors must be MC4 type.
- Connect the DC cables from the photovoltaic module with the corresponding micro inverter DC cables.

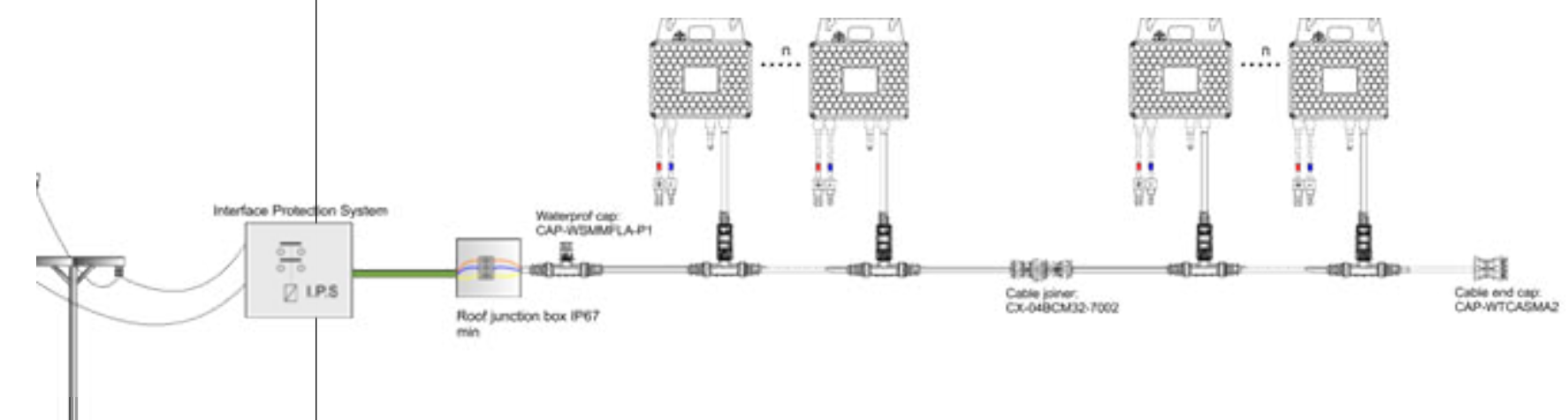
### AC installation

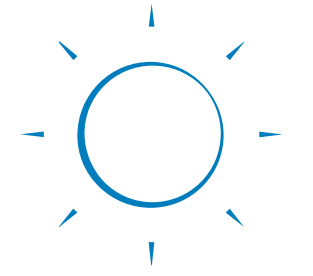
- The main AC power switch, as well as all other switches must be in the off position (OFF).
- Before connecting check the insulation resistance and continuity of the cable system.
- Check the polarity and insulation resistance of PV modules.
- Connect the micro-inverters on trunk cable.
- At the end of the trunk cable is covered by the original End Cap.
- Any unused T-connectors covered with the Waterproof Cap.



### Commissioning

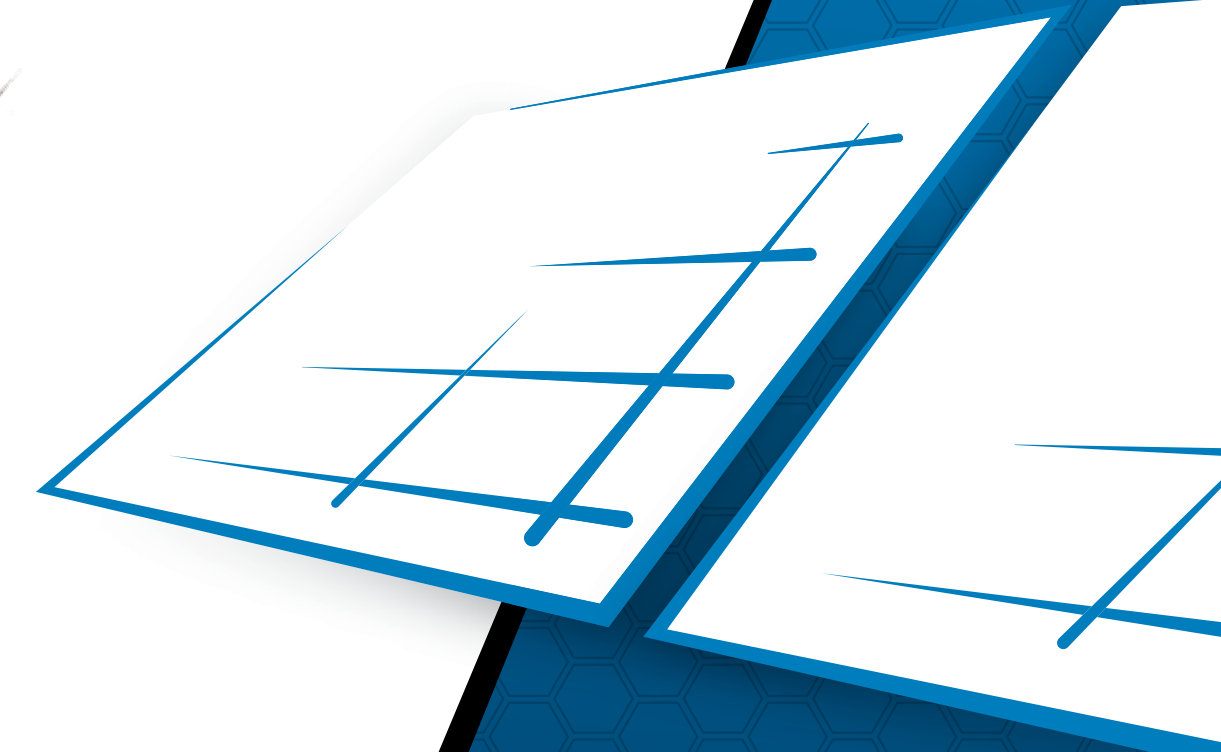
- Switch on all switches and circuit breakers.
- Switch on the main AC grid switch.
- Micro-inverter will start after a few minutes, if there is sufficient solar radiation.
- At the first time the device will use the default settings.
- All settings and control of the operation of the device is done via communication gateway. (see user manual for Communication Gateway).





# SOLAR MICRO INVERTER 260

QUICK USER MANUAL



## MATRIX OF SOLAR POWER PLANT

	1	2	3	4	5
A					
B					
C					
D					
E					
F					
G					
H					
I					
J					

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