QUANTUM
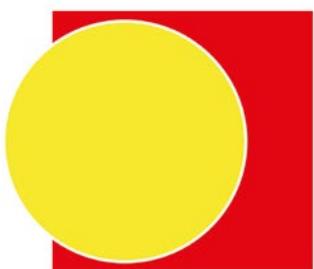
solar energy storage

SoLink

YOUR SOLAR TECHNOLOGY

We went beyond all limits of photovoltaic storages.

Quantum is the first, revolutionary, photovoltaic storage system designed by SoLink, with no limits on the power that can be installed: from a minimum of 1,2 kWh the system can scale up to infinite with the maximum reliability and functionality. All of this is possible thanks to small lithium batteries that joined togheter can reach the power needed to satisfy anyone's need.

Quantum marks a brand new concept of solar energy storage, in order to balance the energetic demand of small and large users, big energy systems through the union of small storage units with endless way of configuration without any cabinet, shelves, container or dedicated room nedeed to place the batteries.

With **Quantum** photovoltaic storage comes safe and easy for everybody, helping the energetic shifting from fossil fuel to renewable sources, lowering to the minumum the typical photovoltaic intermittences during the night or when the sun is not properly striking the PVs, storing the necessary energy to overcome the lack of production in those moments.
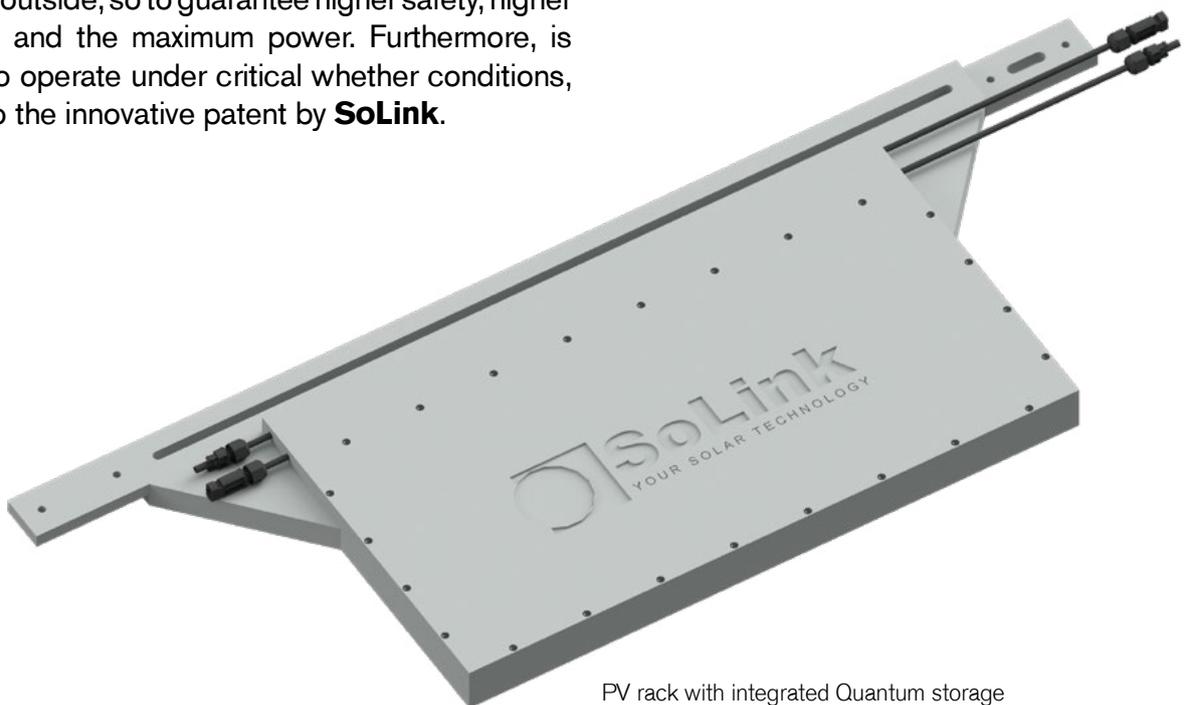
As opposed to a normal storage system, **Quantum** is installed outside, so to guarantee higher safety, higher reliability and the maximum power. Furthermore, is design to operate under critical whether conditions, thanks to the innovative patent by **SoLink**.

The energy independance is now closer, also PV system equiped with **Quantum** are an important step to manage Smart City and Smart Grid.

Main benefits:

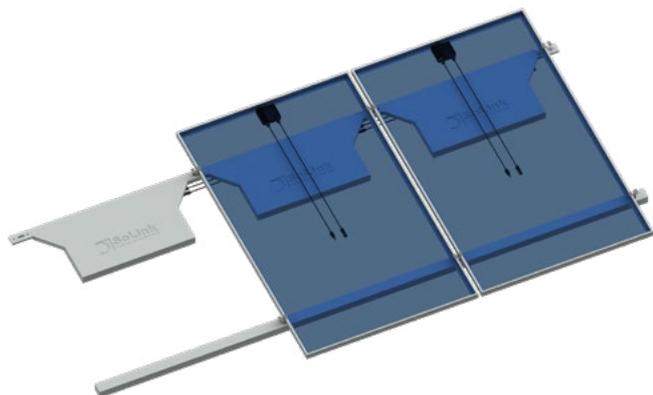Here some of the large number of benefits obtained by using small batteries integrated in PV mounting racks:

- *maximum safety*
- *reduced weight for a single unit*
- *no additional room needed for the photovoltaic storage*
- *natural cooling of the batteries*
- *scalability since it's modular*
- *both on grid and off grid configuration*
- *both monophase and three-phase configuration*
- *it can be installed on new or existing photovoltaic system*
- *zero decibel noise operation*
- *perfect for small and big systems*

PV rack with integrated Quantum storage

Quantum is an exclusive patent pending by SoLink N° 102019000022746
www.solink.it

A system with Quantum solar energy storage is very easy to design and install.

Quantum solar energy storage installation.

Also the photovoltaic mounting rack fixing system is very easy, every module as a single element in the upper part, which contains the battery, and one in the lower part without battery.

Every single elements is jointed to the others with special supplied screws. As many modules in the system as many fixing elements are actually needed, avoid waste of material and errors the calculation of the tradition mounting racks.
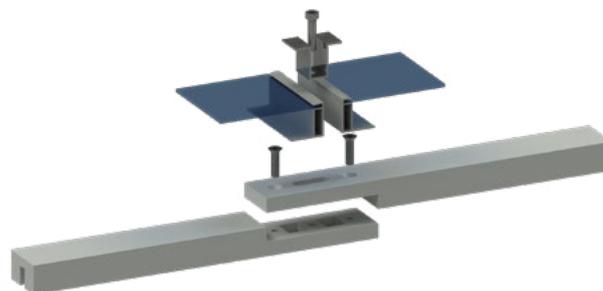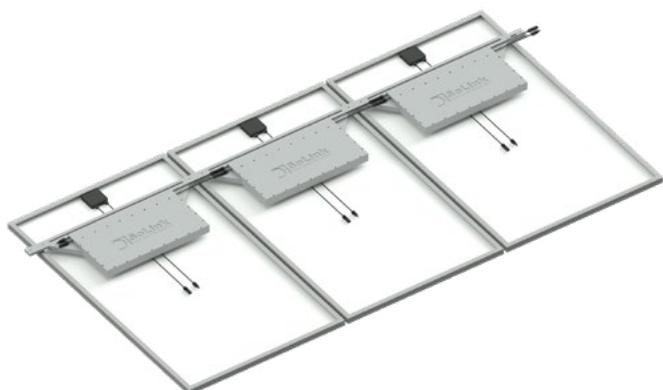
Mounting rack-PV panel fixing.

Every component has been designed to be easy and intuitive, by having a single modular elements everything gets easy and configurable avoiding the possibility of making mistakes; the connection among the single batteries are the same as for the PV panels with MC4 cables and connectors. As for the PV system, the storage can be divided in strings and set with the needed voltage.

Every **Quantum** system can be remotely monitored with the Quantum app, production data of the system are gathered and sent to a remote server so that they can be seen also without a remote connection.

Quantum is a modular system suitable for every PV system.

For house system too, modularity is a winning choice. From 1,3 kWh up to 20 kWh (typical domestical sizes of the storage) **Quantum** is the ideal on a technical and an economical side.

First of all there won't be the need of a room where to install storage batteries, which will be installed behind the PV panels, moreover with **Quantum** single modules is possible to easily choose the perfect size of the PV storage to suit every kind of demand.

The PV storage will have no environmental impact and, actually invisible if installed on the roof, will work completely in safety since it's placed outside the house.

Thanks to its small storage units of 1,2 kWh, **Quantum** the system is scalable, therefore can reach unlimited power.
This feature is not common in normal PV storages since they are not designed as modular but as system with a defined capacity with important dimensions and weight concentrated in a single point, especially if the storage demand is very big.

1-10-100-1000 MWh of Quantum storage without occupying space, how it's possible?

It is possible because every single module is installed in the space already occupied by the PV panel, actually just a part of it since its smaller.

So, even if the dimension of the demanded storage is very big, it won't occupy any room. This is a big advantage on both an environmental level and an economic level since costs are consistently dropped.

We made a green choice, also for the Lithium conained in the batteries

Quantum batteries are lithium LiFePO4, this particular kind of lithium offers a lot of advantages. Among the most importants a higher thermal resistance, ecxellent safety , no memory effect, longer life cycles and an higher pick current. Moreover, using iron instead of cobalt has a lower environmental impact.

Passion, research and development are the base of our products.

Ideas, work team and innovation skills are the reasons why every day we face new challanges.

We were born as pioneers and we always are, our research is oriented towards the future of sustainable energy in a way that could contribute to the switching between fossil fuels and renewable energies without market compromises but only for the wellness of the people and the planet.

Our products are designed with these purposes, to last in time and to be 100% recycled since they are made of recyclable materials.

Green Energy
for better life!

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