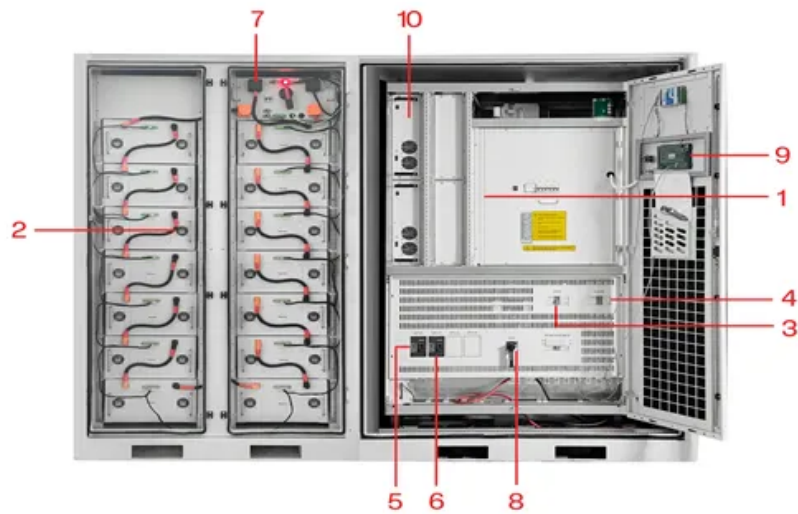


# Photovoltaic container substation standard



- |   |                           |    |                           |
|---|---------------------------|----|---------------------------|
| 1 | PCS Module                | 6  | OPV2 side circuit breaker |
| 2 | Battery room              | 7  | High Volt Box             |
| 3 | Grid side circuit breaker | 8  | BAT side circuit breaker  |
| 4 | Load side circuit breaker | 9  | LCD display screen        |
| 5 | OPV1 side circuit breaker | 10 | MPPT                      |



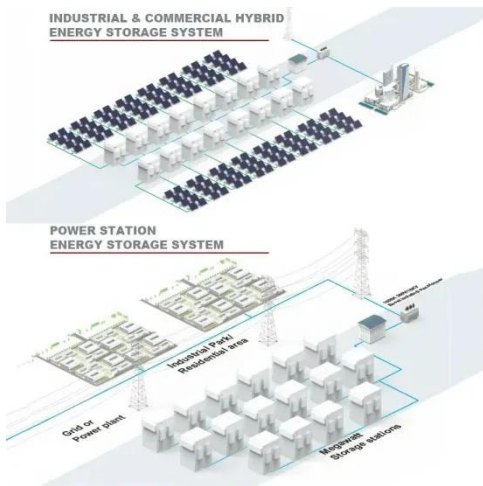
## Overview

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Utilising standard voltages of 6.6kV, 11kV and 22kV, the design enables the user to power a complete site from a single unit and supply high voltage through supplies as well. Eaton offers highly-reliable and efficient solutions for large photovoltaic plants, including medium voltage switchgear, low voltage switchgear and transformers in one compact enclosure. Using a standard seaworthy ISO container as the enclosure ensures that xSolAir can be delivered anywhere-no. Customers requiring shorter overall delivery times and minimal on-site work have been the main drivers for Hitachi Energy's development of pre-fabricated indoor substations. By integrating the equipment in a modular housing and undertaking rigorous testing off site. Our step-up substation converts low-voltage AC power generated by the PV inverter into medium-voltage AC power and feeds it into the power grid.

## Photovoltaic container substation standard

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### Containerised Substation (CSS)

Utilising standard voltages of 6.6kV, 11kV and 22kV, the design enables the user to power a complete site from a single unit and supply high voltage through supplies as well.

### ABB inverter station PVS800-IS - 1.645 to 4.156

The ABB inverter station design capitalizes on ABB's long experience in the development and manufacture of secondary substations for electrical authorities and major end-users worldwide in conventional power ...



### Step-up Transformer Substation (PV)

The Brunstock Electric step-up substation integrates a ring main unit, transformer, low-voltage cabinet and auxiliary power supply into a steel container. This is a highly integrated power transformation and distribution ...

## Reference design guide xSolAir

Using the fully pre-assembled and tested xSolAir substation, all it takes to energize a photovoltaic plant is to connect the medium voltage cables to the medium voltage switchgear.



LPR Series 19  
Rack Mounted



## Compact digital substation container solutions

By integrating the equipment in a modular housing and undertaking rigorous testing off site, Siemens is able to supply fully built and tested modular traction power substations to a consistent and high level of quality.

## Medium voltage containerised power substations -Varelen Electric

Medium voltage containerised power substations for the solar, mining, tunnelling and construction industries. Containers substation are offered as standard or bespoke packages to suit the client's requirements.



## Prefabricated Substation Solutions , Transformer



## Substations , HCRT

Explore HCRT's comprehensive range of prefabricated substation, including standard European-style, renewable energy, outdoor, integrated inverter-booster, and prefabricated containerized options for reliable and efficient ...

## Container Type Transformer Substation Manufacturer -Rockwill ...

Container type unitized compact substation from Rockwill Electric. It complies with IEC standard, and it is easy for transportation and installation, high quality and strong enough for loading and lifting.



## ESS



## Prefabricated Container Substation , META Power Solutions

View our prefabricated container substation product, which allows for mobility and rapid deployment. Join META Power Solutions online to learn more or contact us today to request a quote.

## Containerized and

## prefabricated substations , Hitachi Energy

Smaller distribution substations are subdivided into container-sized modules, which can be manufactured, assembled and tested at the factory, allowing easy transport and fast installation and commissioning at site.



**200kWh  
Battery Cluster**

## Compact digital substation container solutions

All traction power and switching equipment in one container  
 Medium-voltage switchgear  
 Rectifier transformer unit  
 DC switchgear  
 Setup, connect, switch on - ready  
 Digital components, connectivity and digital solutions  
 Station control  
 Technical features station control system  
 Sitras SCSEnergy management system  
 Benefits  
 Asset Monitoring  
 Cloud Connectivity  
 The three-phase AC supply is fed in and distributed via the medium-voltage switchgear. The rectifier transformer unit (rectifier transformer and rectifier Sitras REC) transforms the voltage and frequency of the power supply. DC switchgear Sitras DSG or Sitras CSG distributes the power to the track sections. The Sitras SCS station control system  
 See more on [assets.new.siemens-brunstock](https://assets.new.siemens-brunstock.com) [PDF]

## Step-up Transformer Substation (PV) - brunstock

The Brunstock Electric step-up

substation integrates a ring main unit, transformer, low-voltage cabinet and auxiliary power supply into a steel container. This is a highly integrated power transformation ...

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