

PV Box (NA, Japan, India)



Product at a glance

The PV Box is a containerized plug and play power conversion system adapted to customer requirements and local standards. In a PV plant installation, it operates between DC field and AC MV grid connection point. The PV Box performs the DC power concentration, the DC/AC conversion, and the AC voltage elevation to the grid voltage level. The PV Box protects maintenance staff and the installation against electrical faults, such as short-circuit and lightning. The optimized versions of the PV Box reduce the balance-of-systems costs, increase reliability, and improve construction lead times.

Flexible

- Customizable to be compliant with customer local building codes

Easy to service

- Fully monitored solution
- Convenient and safe enclosure design for maintenance purposes
- Local Schneider Electric service and maintenance available in 100+ countries

Easy to install

- Ease in transportation due to its compact and light design (<20t, minimized width, height and length for easy shipping by road and by sea)
- Solution delivered pre-assembled, configured and tested to reduce on-site labor and project duration

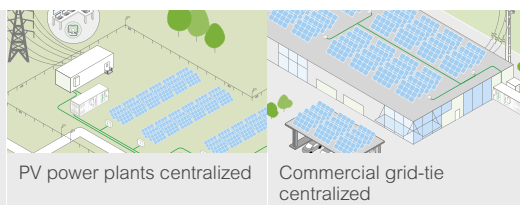
Higher return on investment

- Compressed construction lead-times through factory integrated solution
- Reduced transportation, off-loading and on-site labor costs
- Enhanced uptime thanks to qualified and reliable designs

Designed for reliability

- Designed to withstand severe weather conditions for tropical and desartic environments
- Undergone extensive safety, quality and reliability risk mitigation
- Robust design through rigorous Custom Reliability Testing

Product applications



PV power plants centralized

Commercial grid-tie centralized

PV Box North America
General Specifications
Fully enclosed or porch version with outdoor pad-mounted transformer
MV transformer UL compliant with integrated MV switch and fuse protection
Plug-in type filter boxes for desertic and tropical climates
PV Box Japan
General Specifications
Seismic withstand
Special protection against dry salt corrosion
Combined forced ventilation & air conditioning advanced cooling system
Local manufacturing compliant to Japanese standards (JIS)
Choice of 6.6 kV, 22 kV and 33 kV transformers and MV switchgears
Special 2 MW version with integrated 6.6 kV grid-tie switchgear for MegaSolar projects
PV Box India
General Specifications
Special ventilation system for operation at high temperatures (50°C)
Filtering system for dusty environments
Metallic basement enabling elevated installation for areas subject to floods
Compliant to local building codes, including 2 access doors

Specifications are subject to change without notice.