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.

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 desertic environments
• Undergone extensive safety, quality and reliability risk mitigation
• Robust design through rigorous Custom Reliability Testing

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

Product applications

PV power plants centralized
Commercial grid-tie centralized

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### 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.