Head office: SUNTREE(China)Electric Co., Ltd.

Add: Xinguang Industrial Zone, Liushi, Yueqing Zhejiang China
Tel: +86 577 6289 0205
Web: www.chinasuntree.com
Main products: Solar Accessories, such as Combiner box, DC breaker, DC isolator switch, DC spd, etc.

Shanghai SUNTREE Electric Co., Ltd. (Production base 1)
Add: No. 55 Hufeng Road, Baoshan District, Shanghai, China
Tel: +86 21 5161 9313
Main items: ATS, Load isolator switch, circuit breaker, etc

Zhejiang Nudy Electric Equipment Co., Ltd. (Production base 2)
Add: Fangdouyan Industrial Zone, Liushi, Yueqing Zhejiang China
Tel: +86 577 6178 8115
Main products: Power distribution cabinet, etc

Shenzhen Litto New Energy Co., Ltd. (Production base 3)
Add: Bldg. B, Bafangyuan Science Park, Sanmin Rd. No. 3 Rd., Shuitian,
Shenzhen, Guangdong, Shenzhen.
Tel: 88-755-8170 7800
Main products: on grid inverter, hybrid inverter, etc.

International Sales Companies: Yueqing Xinchi Imp&Exp Co., Ltd.
Add: Wanjia Industrial Zone, Malujia, North Baixiang, Wenzhou, Zhejiang, 325603, China
Tel: +86 577 6289 0205
Web: www.chinasuntree.com
E-mail: tony@chinasuntree.com
sell all products which are produced by suntree group in international market
Solar Energy Combiner Box
Suntec Electric Co., Ltd, an outstanding company in China intelligent electrical industry, a legendary growing company. Suntec, have leading R&D and manufacture capacity. With power grid, new energy, intelligent electric, and middle & high voltage four sales business units. With production plants in Shanghai, Zhejiang, Shenzhen. Suntec New energy business unit concentrate on new energy (Solar power generation, wind power, new energy application etc.). distribution system research and development, manufacture, sales and service. Suntec has great independent innovation ability, with many core technology, gain many patents, with ISO9001:2008, 14000, OHSAS18000 etc.

Suntec brand DC products used in Photovoltaic systems with leading technology in this area, passed CE, CB, IEC, Nemko, SAA, TUV, CCC, Gold-sun etc. Litto brand PV inverter authorized with TUV, CE, CQC, ETLCQCC, AS4777, VDE-AR-4105, VDE0126-1-1, G59/2, G83/2, MEA, PEA, EN50438, EN60118, EN61727 etc. certificates.

Suntec new energy products including: Solar Photovoltaic distribution system (DC MCCB, DC MCB, Intelligent DC ACB, DC SPD, DC Fuse, Intelligent PV Combiner box. And Litto Brand on-grid and off-grid inverter, high frequency isolated inverter and energy storage inverter etc.)
Wind power distribution system: Intelligent wind power frame circuit breaker (plateau type, salt-fog resistance type, low temperature resistance type), Moulded case circuit breaker.
New energy application: Litto brand Charging pile module.
First class products, it from advanced design concept, precise production equipment, strict testing, perfect quality assurance system, quick feedback and excellent after sales service.
To provide customer with our first class products and service is our persistent goal.
Suntree company spirit "Innovation, Communication, Service, Dream", insist on "Human, technology, nature" harmonious development, according to "Win-win, win future" cooperation concept. Sincerely hope to cooperate with you to win future.
Technology
Connects human and nature
Technology
Connects human and nature

Solar Energy Accessories
PV Set of String Type Grid Inverter: LS/ILT (CE, CQC, AS4777.2015, PEA, MEA, IEC62109, G83/G89, EN50438)

- PV DC MCB: SL7-PV (CCC, TUV, SAA, IEC)
- PV DC Rotate Isolator Switch: SISO-Z (CCC, TUV, SAA, IEC)
- PV DC SPD: SUP4-PV (1500V TUV)
- PV Inverter Ethernet Connector: SMA4 (CE, ROHS, TUV)
- PV Inverter USB Connector: SME4 (CE, ROHS)
- PV Inverter USB Connector: SMU4 (CE, ROHS)
- PV Waterproof Connector: SMC4 (CE, ROHS, TUV)
- PV AC Combiner Box: SHLY-AC (CGC)
- PV AC Frame-Type Circuit Breaker: SW8 (CCC, CE)
- PV AC MCCB: SM8 (CCC, TUV, CE, IEC)
- PV AC MCB: SCB8 (CCC, TUV, IEC)
- PV AC Load-Disconnector Switch: SGL (CCC, IEC)
- PV AC SPD: SUP1/SUP2 (CE)
- PV AC Auto Reclosing MCB: SCB8ZY (CE)
- PV AC ATS: SQ3 (CE)

High Voltage Earth Switch: SV8
High Voltage Earth Switch: JN15
GROUND STRING TYPE PV GRID POWER PLANT
SPECIFICAL PRODUCTS

AC Cabinet
Boosting Transformer
High-Voltage Distribution Cabinet and Measuring System
High-Voltage Power Grid

SW8
Resistant Low Temperature Type
Resistance Salt Fog Type
Plateau Type

SM6

SGL

SC86

SUP1
SUP2

SZ80ZY

SO3

SV8

JN15

Technology
Connects human and nature
PV DC Combiner Box : SHLX-PV (CGC)
PV DC Frame-Type Circuit Breaker : SW8-PV (CCC, CE)
PV DC MCCB : SM8-PV (CCC, TUV, IEC)
PV DC MCB : SL7-PV (CCC, TUV, SAA, IEC)
PV DC Load-Disconnector Switch : SGL-PV (CCC, IEC)
PV DC SPD : SUP4-PV (1500V TUV)
PV DC Fuse : CH10 (TUV, CE)
PV Waterproof Connector : SMC4 (TUV)
PV AC Frame-Type Circuit Breaker : SW8 (CCC, CE)
PV AC MCCB : SM8 (CCC, TUV, CE, IEC)
PV AC MCB : SCB8 (CCC, TUV, IEC)
PV AC Load-Disconnector Switch : SGL (CCC, IEC)
PV AC SPD : SUP1 (CE)
PV AC Auto Reclosing MCB : SCB8ZY (CE)
PV AC ATS : SQ3(CE)
High Voltage Vacuum Circuit Breaker : SV8
High Voltage Earth Switch : JN15
GROUND CONCENTRATING PV GRID POWER PLANT SPECIFICAL PRODUCTS

Inverter  AC Cabinet  Boosting Transformer  High-Voltage Distribution Cabinet and Measuring System  High-Voltage Power Grid

SW8 Resistant Low Temperature Type Resistance Salt Fog Type Plateau Type

SM8

SGL

SCB8

SUP1

SZB8ZY

SQ3

SV8

JN15

Technology
Connects human and nature
PV DC Combiner Box: LS/LTICE, CQC, AS4777:2015, PEA, MEA, IEC62109, G93/G59, EN50438
PV DC MCB: SL7-PV (CCC, TUV, SAA, IEC)
PV DC Rotate Isolator Switch: SISO/SISO-Z (CCC, TUV, SAA, IEC)
PV DC Fuse: CH10 (TUV, CE)
PV DC SPD: SUP4-PV (1500V TUV)
PV Inverter AC Output Connector: SMA4 (CE, ROHS, TUV)
PV Inverter Ethernet Connector: SME4 (CE, ROHS)
PV Inverter USB Connector: SMU4 (CE, ROHS)
PV Waterproof Connector: SMC4 (CE, ROHS, TUV)
PV AC MCB: SCB8 (CCC, TUV, IEC)
PV AC SPD: SUP1/SUP2 (CE)
PV AC self dual overvoltage protector: SGQ
PV AC Auto Reclosing MCB: SCB8ZY (CE)
PV AC ATS: SQ3(CE)
**DC COMBINER BOX TYPE**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>HLX</td>
<td>PV</td>
<td>4</td>
<td>/</td>
<td>1</td>
<td>M</td>
<td>/</td>
</tr>
</tbody>
</table>

① Suntree electric  
② Product model (combiner box)  
③ PV  
④ Input channel (1-24)  
⑤ No. of output channel of MPPT  
⑥ Monitoring unit  
⑦ Diode  
⑧ DC550V/DC1000V
**SHLX-PV1/1 DC COMBINER BOX**

- High reliability
  - With DC FUSE
  - With DC Surge Protection Device
  - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
  - IP65 design, waterproof, anti dust and anti ultraviolet.
  - Strict test for high and low temperature, used widely.
  - The simple installation, the simplified system wiring, the convenient wiring.
  - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
  - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.

---

**DESCRIPTION**

SHLX-PV1/1 combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V, 1 PV input channel, 1 output channel, single MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.
**TECHNICAL PARAMETERS**

<table>
<thead>
<tr>
<th>Name</th>
<th>SHLX-PV1/1</th>
<th>Electric parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>System maximum dc voltage</td>
<td>550</td>
<td>1000</td>
</tr>
<tr>
<td>Maximum input current for each string</td>
<td></td>
<td>15A</td>
</tr>
<tr>
<td>Maximum input strings</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Maximum output switch current</td>
<td>16A/20A</td>
<td></td>
</tr>
<tr>
<td>Number of inverter MPPT</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Number of Output strings</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Lightning protection**

<table>
<thead>
<tr>
<th>Category of test</th>
<th>II grade protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal discharge current</td>
<td>20kA</td>
</tr>
<tr>
<td>Maximum discharge current</td>
<td>40kA</td>
</tr>
<tr>
<td>Voltage protection level</td>
<td>2.8kV</td>
</tr>
<tr>
<td>3.8kV</td>
<td></td>
</tr>
<tr>
<td>Maximum continuous operating voltage Uc</td>
<td>630V</td>
</tr>
<tr>
<td>1050V</td>
<td></td>
</tr>
<tr>
<td>Poles</td>
<td>2P</td>
</tr>
<tr>
<td>3P</td>
<td></td>
</tr>
</tbody>
</table>

**Structure characteristic**

- Plug-push module

**System**

<table>
<thead>
<tr>
<th>Protection grade</th>
<th>IP65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output switch</td>
<td>DC isolation switch(standard)/DC circuit breaker(optional)</td>
</tr>
<tr>
<td>SMC4 Waterproof Connectors</td>
<td>Standard</td>
</tr>
<tr>
<td>PV dc fuse</td>
<td>Standard</td>
</tr>
<tr>
<td>PV surge protector</td>
<td>Standard</td>
</tr>
<tr>
<td>Monitoring module</td>
<td>Optional</td>
</tr>
<tr>
<td>Preventing diode</td>
<td>Optional</td>
</tr>
<tr>
<td>Box material</td>
<td>PVC</td>
</tr>
<tr>
<td>Installation method</td>
<td>Wall mounting type</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-25°C~+55°C</td>
</tr>
<tr>
<td>Elevation of temperature</td>
<td>2km</td>
</tr>
<tr>
<td>Permissible relative humidity</td>
<td>0-95%, no condensation</td>
</tr>
</tbody>
</table>

**Mechanical parameter**

- Width × High × Depth: 300 × 260 × 140

**SCHEMATIC DIAGRAM**

[Diagram showing circuit connections with labels and ports]
**SHLX-PV2/1 DC COMBINER BOX**

- High reliability
  With DC FUSE
  With DC Surge Protection Device
  With DC circuit breaker or DC load isolation switch.

- Strong adaptability
  IP65 design, waterproof, anti dust and anti ultraviolet.
  Strict test for high and low temperature, used widely.
  The simple installation, the simplified system wiring, the convenient wiring.
  The box body is made of cold rolled steel and other metal materials.

- Flexible configuration
  Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.

---

**DESCRIPTION**

SHLX-PV2/1 combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V, 2 PV input channel, 1 output channel, single MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing, IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.
### TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Name</th>
<th>SHLX-PV2/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric parameter</td>
<td></td>
</tr>
<tr>
<td>System maximum dc voltage</td>
<td>550</td>
</tr>
<tr>
<td>Maximum input current for each string</td>
<td>15A</td>
</tr>
<tr>
<td>Maximum input strings</td>
<td>2</td>
</tr>
<tr>
<td>Maximum output switch current</td>
<td>20A/32A</td>
</tr>
<tr>
<td>Number of inverter MPPT</td>
<td>1</td>
</tr>
<tr>
<td>Number of Output strings</td>
<td>1</td>
</tr>
<tr>
<td>Lightning protection</td>
<td></td>
</tr>
<tr>
<td>Category of test</td>
<td>II grade protection</td>
</tr>
<tr>
<td>Nominal discharge current</td>
<td>20kA</td>
</tr>
<tr>
<td>Maximum discharge current</td>
<td>40kA</td>
</tr>
<tr>
<td>Voltage protection level</td>
<td>2 kV</td>
</tr>
<tr>
<td>Maximum continuous operating voltage Uc</td>
<td>630V</td>
</tr>
<tr>
<td>Voltage protection level</td>
<td>3.8 kV</td>
</tr>
<tr>
<td>Maximum continuous operating voltage Uc</td>
<td>1050V</td>
</tr>
<tr>
<td>Poles</td>
<td>2P</td>
</tr>
<tr>
<td>Structure characteristic</td>
<td>Plug-push module</td>
</tr>
<tr>
<td>System</td>
<td></td>
</tr>
<tr>
<td>Protection grade</td>
<td>IP65</td>
</tr>
<tr>
<td>Output switch</td>
<td>DC isolation switch(standard)/DC circuit breaker(optional)</td>
</tr>
<tr>
<td>SMC4 Waterproof Connectors</td>
<td>Standard</td>
</tr>
<tr>
<td>PV dc fuse</td>
<td>Standard</td>
</tr>
<tr>
<td>PV surge protector</td>
<td>Standard</td>
</tr>
<tr>
<td>Monitoring module</td>
<td>Optional</td>
</tr>
<tr>
<td>Preventing diode</td>
<td>Optional</td>
</tr>
<tr>
<td>Box material</td>
<td>PVC</td>
</tr>
<tr>
<td>Installation method</td>
<td>Wall mounting type</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-25°C - +55°C</td>
</tr>
<tr>
<td>Elevation of temperature</td>
<td>2km</td>
</tr>
<tr>
<td>Permissible relative humidity</td>
<td>0-95% , no condensation</td>
</tr>
<tr>
<td>Width×Height×Depth</td>
<td>300×260×140</td>
</tr>
</tbody>
</table>

### SCHEMATIC DIAGRAM

![Diagram](image-url)
SHLX-PV4/1 DC COMBINER BOX

- High reliability
  With DC FUSE
  With DC Surge Protection Device
  With DC circuit breaker or DC load isolation switch.
- Strong adaptability
  IP65 design, waterproof, anti dust and anti ultraviolet.
  Strict test for high and low temperature, used widely.
  The simple installation, the simplified system wiring, the convenient wiring.
  The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
  Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.

DESCRIPTION

SHLX-PV4/1 combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V, 4 PV input channel, 1 output channel, single MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment ” CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.
## TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Name</th>
<th>SH</th>
<th>X-PV4/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric parameter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>System maximum dc voltage</td>
<td>550</td>
<td></td>
</tr>
<tr>
<td>Maximum input current for each string</td>
<td>15A</td>
<td></td>
</tr>
<tr>
<td>Maximum input strings</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Maximum output switch current</td>
<td>50A/63A</td>
<td></td>
</tr>
<tr>
<td>Number of inverter MPPT</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Number of Output strings</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Lightning protection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Category of test</td>
<td>II grade protection</td>
<td></td>
</tr>
<tr>
<td>Nominal discharge current</td>
<td>20kA</td>
<td></td>
</tr>
<tr>
<td>Maximum discharge current</td>
<td>40kA</td>
<td></td>
</tr>
<tr>
<td>Voltage protection level</td>
<td>2.8kV</td>
<td>3.8kV</td>
</tr>
<tr>
<td>Maximum continuous operating voltage Uc</td>
<td>630V</td>
<td>1050V</td>
</tr>
<tr>
<td>Poles</td>
<td>2P</td>
<td>3P</td>
</tr>
<tr>
<td>Structure characteristic</td>
<td>Plug-push module</td>
<td></td>
</tr>
</tbody>
</table>

## System

| Protection grade                  | IP65       |        |
| DC isolation switch(standard)/DC circuit breaker(optional) |            |        |
| SMC4 Waterproof Connectors        | Standard   |        |
| PV dc fuse                        | Standard   |        |
| PV surge protector                | Optional   |        |
| Monitoring module                 | Optional   |        |
| Preventing diode                  |            |        |
| Box material                      | PVC        |        |
| Installation method               | Wall mounting type |      |
| Operating Temperature             | -25°C ~ +55°C |      |
| Elevation of temperature          | 2km        |        |
| Permissible relative humidity     | 0-95% , no condensation |     |
| Mechanical parameter              |            |        |
| Width×Height×Depth                | 410×285×140 |        |

## SCHEMATIC DIAGRAM

![Schematic Diagram](image-url)
**SHLX-PV4/2 DC COMBINER BOX**

- High reliability
  - With DC FUSE
  - With DC Surge Protection Device
  - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
  - IP65 design, waterproof, anti dust and anti ultraviolet.
  - Strict test for high and low temperature, used widely.
  - The simple installation, the simplified system wiring, the convenient wiring.
  - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
  - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.

---

**DESCRIPTION**

SHLX-PV4/2 combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V, 4 PV input channel, 2 output channel, double MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.
# TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Name</th>
<th>SHLX-PV4/2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric parameter</td>
<td></td>
</tr>
<tr>
<td>System maximum dc voltage</td>
<td>550</td>
</tr>
<tr>
<td>Maximum input current for each string</td>
<td>15A</td>
</tr>
<tr>
<td>Maximum input strings</td>
<td>4</td>
</tr>
<tr>
<td>Maximum output switch current</td>
<td>20A/32A</td>
</tr>
<tr>
<td>Number of inverter MPPT</td>
<td>2</td>
</tr>
<tr>
<td>Number of Output strings</td>
<td>2</td>
</tr>
</tbody>
</table>

**Lightning protection**

<table>
<thead>
<tr>
<th>Category of test</th>
<th>II grade protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal discharge current</td>
<td>20kA</td>
</tr>
<tr>
<td>Maximum discharge current</td>
<td>40kA</td>
</tr>
<tr>
<td>Voltage protection level</td>
<td>2.8kV</td>
</tr>
<tr>
<td>Maximum continuous operating voltage Uc</td>
<td>630V</td>
</tr>
<tr>
<td>Poles</td>
<td>2P</td>
</tr>
<tr>
<td>Structure characteristic</td>
<td>Plug, push module</td>
</tr>
</tbody>
</table>

**System**

<table>
<thead>
<tr>
<th>Protection grade</th>
<th>IP65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output switch</td>
<td>DC isolation switch (standard)/DC circuit breaker (optional)</td>
</tr>
<tr>
<td>SMC4 Waterproof Connectors</td>
<td>Standard</td>
</tr>
<tr>
<td>PV dc fuse</td>
<td>Standard</td>
</tr>
<tr>
<td>PV surge protector</td>
<td>Optional</td>
</tr>
<tr>
<td>Monitoring module</td>
<td>Optional</td>
</tr>
<tr>
<td>Preventing diode</td>
<td>PVC</td>
</tr>
</tbody>
</table>

**Installation method**

| Operating Temperature | -25℃ ~ +55℃ |
| Elevation of temperature | 2km |
| Permissible relative humidity | 0-95%, no condensation |

**Mechanical parameter**

| Width x Height x Depth | 300 x 415 x 140 |

# SCHEMATIC DIAGRAM

![Schematic Diagram](image-url)
SHLX-PV6/2 DC COMBINER BOX

- High reliability
  - With DC FUSE
  - With DC Surge Protection Device
  - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
  - IP65 design, waterproof, anti dust and anti ultraviolet.
  - Strict test for high and low temperature, used widely.
  - The simple installation, the simplified system wiring, the convenient wiring.
  - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
  - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.

DESCRIPTION

SHLX-PV6/2 combiner box is suitable for inverter (MAX input voltage DC1000V, 6 PV input channel, 2 output channel, double MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.
# TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Name</th>
<th>SHLX-PV6/2</th>
</tr>
</thead>
<tbody>
<tr>
<td>System maximum dc voltage</td>
<td>Electric parameter 1000</td>
</tr>
<tr>
<td>Maximum input current for each string</td>
<td>15A</td>
</tr>
<tr>
<td>Maximum input strings</td>
<td>6</td>
</tr>
<tr>
<td>Maximum output switch current</td>
<td>32A/40A</td>
</tr>
<tr>
<td>Number of inverter MPPT</td>
<td>2</td>
</tr>
<tr>
<td>Number of Output strings</td>
<td>2</td>
</tr>
</tbody>
</table>

| Lightning protection              |
|-----------------------------------|----------------------------------------------------------------------------|
| Category of test                  | II grade protection                                                        |
| Nominal discharge current         | 20kA                                                                      |
| Maximum discharge current         | 40kA                                                                      |
| Voltage protection level          | 3.8kV                                                                     |
| Maximum continuous operating voltage Uc | 1050V                                                                  |
| Poles                             | 3P                                                                        |
| Structure characteristic          | Plug-push module                                                          |

| System                           |
|-----------------------------------|----------------------------------------------------------------------------|
| Protection grade                  | IP65                                                                      |
| Output switch                     | DC isolation switch/standard/DC circuit breaker/optional                  |
| SMC4 Waterproof Connectors        | Standard                                                                 |
| PV dc fuse                        | Standard                                                                 |
| PV surge protector                | Standard                                                                 |
| Monitoring module                 | Optional                                                                  |
| Preventing diode                  | Optional                                                                  |
| Box material                      | PVC                                                                      |
| Installation method               | Wall mounting type                                                        |
| Operating Temperature             | -25°C → +55°C                                                            |
| Elevation of temperature          | 2km                                                                       |
| Permissible relative humidity     | 0~95%, no condensation                                                    |

**Mechanical parameter**

| Width×High×Depth                  | 400×300×160                                                               |

# SCHEMATIC DIAGRAM

![Schematic Diagram](image-url)
SHLX-PV6/3 DC COMBINER BOX

- High reliability
  - With DC FUSE
  - With DC Surge Protection Device
  - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
  - IP65 design, waterproof, anti dust and anti ultraviolet.
  - Strict test for high and low temperature, used widely.
  - The simple installation, the simplified system wiring, the convenient wiring.
  - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
  - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.

DESCRIPTION

SHLX-PV6/3 combiner box is suitable for inverter (MAX input voltage DC1000V, 6 PV input channel, 3 output channel). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment." CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.
# TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Name</th>
<th>SHLX-PV6/3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric parameter</td>
<td></td>
</tr>
<tr>
<td>System maximum dc voltage</td>
<td>1000</td>
</tr>
<tr>
<td>Maximum input current for each string</td>
<td>15A</td>
</tr>
<tr>
<td>Maximum input strings</td>
<td>6</td>
</tr>
<tr>
<td>Maximum output switch current</td>
<td>20A/32A</td>
</tr>
<tr>
<td>Number of inverter MPPT</td>
<td>3</td>
</tr>
<tr>
<td>Number of Output strings</td>
<td>3</td>
</tr>
<tr>
<td>Lightning protection</td>
<td>II grade protection</td>
</tr>
<tr>
<td>Category of test</td>
<td></td>
</tr>
<tr>
<td>Nominal discharge current</td>
<td>20kA</td>
</tr>
<tr>
<td>Maximum discharge current</td>
<td>40kA</td>
</tr>
<tr>
<td>Voltage protection level</td>
<td>3.8kV</td>
</tr>
<tr>
<td>Maximum continuous operating voltage Uc</td>
<td>1050V</td>
</tr>
<tr>
<td>Polies</td>
<td>3P</td>
</tr>
<tr>
<td>Structure characteristic</td>
<td>Plug-push module</td>
</tr>
<tr>
<td>Protection grade</td>
<td>IP65</td>
</tr>
<tr>
<td>System</td>
<td>DC isolation switch(standard)/DC circuit breaker(optional)</td>
</tr>
<tr>
<td>SMC4 Waterproof Connectors</td>
<td>Standard</td>
</tr>
<tr>
<td>PV dc fuse</td>
<td>Standard</td>
</tr>
<tr>
<td>PV surge protector</td>
<td>Standard</td>
</tr>
<tr>
<td>Monitoring module</td>
<td>Optional</td>
</tr>
<tr>
<td>Preventing diode</td>
<td>Optional</td>
</tr>
<tr>
<td>Box material</td>
<td>PVC</td>
</tr>
<tr>
<td>Installation method</td>
<td>Wall mounting type</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-25°C ~ +55°C</td>
</tr>
<tr>
<td>Elevation of temperature</td>
<td>2km</td>
</tr>
<tr>
<td>Permissible relative humidity</td>
<td>0~95% , no condensation</td>
</tr>
<tr>
<td>Mechanical parameter</td>
<td>500 × 400 × 190</td>
</tr>
</tbody>
</table>

# SCHEMATIC DIAGRAM

![Schematic Diagram](image)
SHLX-PV8/2 DC COMBINER BOX

- High reliability
  - With DC FUSE
  - With DC Surge Protection Device
  - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
  - IP65 design, waterproof, anti dust and anti ultraviolet.
  - Strict test for high and low temperature, used widely.
  - The simple installation, the simplified system wiring, the convenient wiring.
  - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
  - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.

DESCRIPTION

SHLX-PV8/2 combiner box is suitable for inverter (MAX input voltage DC1000V, 8 PV input channel, 2 output channel, double MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.
## TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Name</th>
<th>SHLX-PV8/2 Electric parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>System maximum dc voltage</td>
<td>1000</td>
</tr>
<tr>
<td>Maximum input current for each string</td>
<td>15A</td>
</tr>
<tr>
<td>Maximum input strings</td>
<td>8</td>
</tr>
<tr>
<td>Maximum output switch current</td>
<td>20A/32A</td>
</tr>
<tr>
<td>Number of inverter MPPT</td>
<td>2</td>
</tr>
<tr>
<td>Number of Output strings</td>
<td>2</td>
</tr>
</tbody>
</table>

### Lightning protection
- Category of test: II grade protection
- Nominal discharge current: 20kA
- Maximum discharge current: 40kA
- Voltage protection level: 3.8kV
- Maximum continuous operating voltage Uc: 1050V
- Poles: 3P
- Structure characteristic: Plug-in push module
- Protection grade: IP65
- Output switch: DC isolation switch (standard)/DC circuit breaker (optional)
- SM/C waterproof connectors: Standard
- PV dc fuse: Standard
- PV surge protector: Standard
- Monitoring module: Optional
- Preventing diode: Optional
- Box material: PVC
- Installation method: Wall mounting type
- Operating temperature: -25°C ~ +55°C
- Elevation of temperature: 2km
- Permissible relative humidity: 0~95%, no condensation
- Width x High x Depth: 500 x 400 x 190

## SCHEMATIC DIAGRAM

![Schematic Diagram](image)
**SHLX-PV6/1 DC COMBINER BOX**

- High reliability
  - With DC FUSE
  - With DC Surge Protection Device
  - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
  - IP65 design, waterproof, anti dust and anti ultraviolet.
  - Strict test for high and low temperature, used widely.
  - The simple installation, the simplified system wiring, the convenient wiring .
  - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
  - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.

**DESCRIPTION**

SHLX-PV6/1 PV combiner box bus synthetic DC input of 6 PV components to 1 output. Each channel is with a fuse. Output side is equipped with lightning protection and circuit breaker. It greatly simplify input wiring of DC power distribution cabinet and inverter. Realize lightning protection, short circuit protection and grounding protection. PV combiner box divided into two types: intelligent box and non-intelligent box. Intelligent PV combiner box is equipped with monitoring unit, then detect input current of each string, detect inside temperature, detect lightning protection status, detect circuit breaker status and summarize output voltage and so on. Design and configuration strictly accordance with the “Technical specification for photovoltaic junction equipment.” CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products. The product adopts outdoor wall mounted type, which adapt to the harsh environment. In addition to the core components, the other can be customized by user requirements.
## TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Name</th>
<th>SHLX-PV6/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric parameter</td>
<td></td>
</tr>
<tr>
<td>System maximum dc voltage</td>
<td>1000</td>
</tr>
<tr>
<td>Maximum input current for each string</td>
<td>15A</td>
</tr>
<tr>
<td>Maximum input strings</td>
<td>6</td>
</tr>
<tr>
<td>Maximum output switch current</td>
<td>20A/32A</td>
</tr>
<tr>
<td>Number of inverter MPPT</td>
<td>N</td>
</tr>
<tr>
<td>Number of Output strings</td>
<td>1</td>
</tr>
<tr>
<td>Lightning protection</td>
<td></td>
</tr>
<tr>
<td>Category of test</td>
<td>II grade protection</td>
</tr>
<tr>
<td>Nominal discharge current</td>
<td>20kA</td>
</tr>
<tr>
<td>Maximum discharge current</td>
<td>40kA</td>
</tr>
<tr>
<td>Voltage protection level</td>
<td>3.8kV</td>
</tr>
<tr>
<td>Maximum continuous operating voltage Uc</td>
<td>1050V</td>
</tr>
<tr>
<td>Poles</td>
<td>2P</td>
</tr>
<tr>
<td>Structure characteristic</td>
<td>Plug-push module</td>
</tr>
<tr>
<td>Protection grade</td>
<td>IP65</td>
</tr>
<tr>
<td>System output switch</td>
<td></td>
</tr>
<tr>
<td>SMC4 Waterproof Connectors</td>
<td></td>
</tr>
<tr>
<td>PV dc fuse</td>
<td>Standard</td>
</tr>
<tr>
<td>PV surge protector</td>
<td>Standard</td>
</tr>
<tr>
<td>Monitoring module</td>
<td>Optional</td>
</tr>
<tr>
<td>Preventing diode</td>
<td>Optional</td>
</tr>
<tr>
<td>Box material</td>
<td>Metal</td>
</tr>
<tr>
<td>Wall mounting type</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-25°C ~ +55°C</td>
</tr>
<tr>
<td>Elevation of temperature</td>
<td>2km</td>
</tr>
<tr>
<td>Permissible relative humidity</td>
<td>0~95%, no condensation</td>
</tr>
</tbody>
</table>

## SCHEMATIC DIAGRAM

![Schematic Diagram](image-url)
SHLX-PV8/1 DC COMBINER BOX

- High reliability
  - With DC FUSE
  - With DC Surge Protection Device
  - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
  - IP65 design, waterproof, anti dust and anti ultraviolet.
  - Strict test for high and low temperature, used widely.
  - The simple installation, the simplified system wiring, the convenient wiring.
  - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
  - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.

DESCRIPTION

SHLX-PV8/1 PV combiner box bus synthetic DC input of 8 PV components to 1 output. Each channel is with a fuse. Output side is equipped with lightning protection and circuit breaker. It greatly simplify input wiring of DC power distribution cabinet and inverter. Realize lightning protection, short circuit protection and grounding protection. PV combiner box divided into two types: intelligent box and non-intelligent box. Intelligent PV combiner box is equipped with monitoring unit, then detect input current of each string, detect inside temperature, detect lightning protection status, detect circuit breaker status and summarize output voltage and so on.

Design and configuration strictly accordance with the “Technical specification for photovoltaic junction equipment.” CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

The product adopts outdoor wall mounted type, which adapt to the harsh environment. In addition to the core components, the other can be customized by user requirements.
## TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Name</th>
<th>SHLX-PV8/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric parameter</td>
<td></td>
</tr>
<tr>
<td>System maximum dc voltage</td>
<td>1000</td>
</tr>
<tr>
<td>Maximum input current for each string</td>
<td>15A</td>
</tr>
<tr>
<td>Maximum input strings</td>
<td>8</td>
</tr>
<tr>
<td>Maximum output switch current</td>
<td>125A</td>
</tr>
<tr>
<td>Number of inverter MPPT</td>
<td>N</td>
</tr>
<tr>
<td>Number of Output strings</td>
<td>1</td>
</tr>
<tr>
<td>Lightning protection</td>
<td></td>
</tr>
<tr>
<td>Category of test</td>
<td>II grade protection</td>
</tr>
<tr>
<td>Nominal discharge current</td>
<td>20kA</td>
</tr>
<tr>
<td>Maximum discharge current</td>
<td>40kA</td>
</tr>
<tr>
<td>Voltage protection level</td>
<td>3.8kV</td>
</tr>
<tr>
<td>Maximum continuous operating voltage Uc</td>
<td>1050V</td>
</tr>
<tr>
<td>Poles</td>
<td>2P</td>
</tr>
<tr>
<td>Structure characteristic</td>
<td>Plug-push module</td>
</tr>
<tr>
<td>Protection grade</td>
<td>IP65</td>
</tr>
<tr>
<td>Output switch</td>
<td>DC isolation switch(standard)/DC circuit breaker(optional)</td>
</tr>
<tr>
<td>SMC4 Waterproof Connectors</td>
<td>Standard</td>
</tr>
<tr>
<td>PV dc fuse</td>
<td>Standard</td>
</tr>
<tr>
<td>PV surge protector</td>
<td>Standard</td>
</tr>
<tr>
<td>Monitoring module</td>
<td>Optional</td>
</tr>
<tr>
<td>Preventing diode</td>
<td>Optional</td>
</tr>
<tr>
<td>Box material</td>
<td>Metal</td>
</tr>
<tr>
<td>Installation method</td>
<td>Wall mounting type</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-25℃~+55℃</td>
</tr>
<tr>
<td>Elevation of temperature</td>
<td>2km</td>
</tr>
<tr>
<td>Permissible relative humidity</td>
<td>0~95% , no condensation</td>
</tr>
</tbody>
</table>

## SCHEMATIC DIAGRAM

![Schematic Diagram](image-url)
SHLX-PV12/1 DC COMBINER BOX

- High reliability
  - With DC FUSE
  - With DC Surge Protection Device
  - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
  - IP65 design, waterproof, anti dust and anti ultraviolet.
  - Strict test for high and low temperature, used widely.
  - The simple installation, the simplified system wiring, the convenient wiring.
  - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
  - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.

**DESCRIPTION**

SHLX-PV12/1 PV combiner box bus synthetic DC input of 12 PV components to 1 output. Each channel is with a fuse. Output side is equipped with lightning protection and circuit breaker. It greatly simplify input wiring of DC power distribution cabinet and inverter. Realize lightning protection, short circuit protection and grounding protection. PV combiner box divided into two types: intelligent box and non-intelligent box. Intelligent PV combiner box is equipped with monitoring unit, then detect input current of each string, detect inside temperature, detect lightning protection status, detect circuit breaker status and summarize output voltage and so on. Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

The product adopts outdoor wall mounted type, which adapt to the harsh environment. In addition to the core components, the other can be customized by user requirements.
## TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Name</th>
<th>SHLX-PV12/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric parameter</td>
<td></td>
</tr>
<tr>
<td>System maximum dc voltage</td>
<td>1000</td>
</tr>
<tr>
<td>Maximum input current for each string</td>
<td>15A</td>
</tr>
<tr>
<td>Maximum input strings</td>
<td>12</td>
</tr>
<tr>
<td>Maximum output switch current</td>
<td>160A</td>
</tr>
<tr>
<td>Number of inverter MPPT</td>
<td>N</td>
</tr>
<tr>
<td>Number of Output strings</td>
<td>1</td>
</tr>
<tr>
<td>Lightning protection</td>
<td>II grade protection</td>
</tr>
<tr>
<td>Category of test</td>
<td>20kA</td>
</tr>
<tr>
<td>Nominal discharge current</td>
<td>40kA</td>
</tr>
<tr>
<td>Maximum discharge current</td>
<td>3.8kV</td>
</tr>
<tr>
<td>Voltage protection level</td>
<td>1050V</td>
</tr>
<tr>
<td>Poles</td>
<td>3P</td>
</tr>
<tr>
<td>Structure characteristic</td>
<td>Plug-pull module</td>
</tr>
<tr>
<td>Protection grade</td>
<td>IP65</td>
</tr>
<tr>
<td>Output switch</td>
<td>DC isolation switch (standard)/DC circuit breaker (optional)</td>
</tr>
<tr>
<td>SMC4 Waterproof Connectors</td>
<td>Standard</td>
</tr>
<tr>
<td>PV dc fuse</td>
<td>Standard</td>
</tr>
<tr>
<td>PV surge protector</td>
<td>Standard</td>
</tr>
<tr>
<td>Monitoring module</td>
<td>Optional</td>
</tr>
<tr>
<td>Preventing diode</td>
<td>Optional</td>
</tr>
<tr>
<td>Box material</td>
<td>Metal</td>
</tr>
<tr>
<td>Installation method</td>
<td>Wall mounting type</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-25°C ~ 55°C</td>
</tr>
<tr>
<td>Elevation of temperature</td>
<td>2km</td>
</tr>
<tr>
<td>Permissible relative humidity</td>
<td>0~95%, no condensation</td>
</tr>
</tbody>
</table>

## SCHEMATIC DIAGRAM

![Schematic Diagram](image-url)
SHLX-PV16/1 DC COMBINER BOX

- High reliability
  With DC FUSE
  With DC Surge Protection Device
  With DC circuit breaker or DC load isolation switch.
- Strong adaptability
  IP65 design, waterproof, anti dust and anti ultraviolet.
  Strict test for high and low temperature, used widely.
  The simple installation, the simplified system wiring, the convenient wiring.
  The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
  Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.
DESCRIPTION

SHLX-PV16/1 PV combiner box bus synthetic DC input of 16 PV components to 1 output. Each channel is equipped with lightning protection and circuit breaker. It greatly simplify input wiring of DC power distribution cabinet and inverter. Realize lightning protection, short circuit protection and grounding protection. PV combiner box divided into two types: intelligent box and non-intelligent box. Intelligent PV combiner box is equipped with monitoring unit, then detect input current of each string, detect inside temperature, detect lightning protection status, detect circuit breaker status and summarize output voltage and so on.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037.2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

The product adopts outdoor wall mounted type, which adapt to the harsh environment. In addition to the core components, the other can be customized by user requirements.

TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Name</th>
<th>SHLX-PV16/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>System maximum dc voltage</td>
<td>1000</td>
</tr>
<tr>
<td>Maximum input current for each string</td>
<td>15A</td>
</tr>
<tr>
<td>Maximum input strings</td>
<td>16</td>
</tr>
<tr>
<td>Maximum output switch current</td>
<td>200A</td>
</tr>
<tr>
<td>Number of inverter MPPT</td>
<td>N</td>
</tr>
<tr>
<td>Number of Output strings</td>
<td>1</td>
</tr>
<tr>
<td>Category of test</td>
<td>II grade protection</td>
</tr>
<tr>
<td>Nominal discharge current</td>
<td>20kA</td>
</tr>
<tr>
<td>Maximum discharge current</td>
<td>40kA</td>
</tr>
<tr>
<td>Voltage protection level</td>
<td>3.8kV</td>
</tr>
<tr>
<td>Maximum continuous operating voltage Uc</td>
<td>1050V</td>
</tr>
<tr>
<td>Poles</td>
<td>3P</td>
</tr>
<tr>
<td>Structure characteristic</td>
<td>Plug-push module</td>
</tr>
<tr>
<td>Protection grade</td>
<td>IP65</td>
</tr>
<tr>
<td>Output switch</td>
<td>DC isolation switch(standard)/DC circuit breaker(optional)</td>
</tr>
<tr>
<td>SMC4 Waterproof Connectors</td>
<td>Standard</td>
</tr>
<tr>
<td>PV dc fuse</td>
<td>Standard</td>
</tr>
<tr>
<td>PV surge protector</td>
<td>Standard</td>
</tr>
<tr>
<td>Monitoring module</td>
<td>Optional</td>
</tr>
<tr>
<td>Preventing diode</td>
<td>Optional</td>
</tr>
<tr>
<td>Box material</td>
<td>Metal</td>
</tr>
<tr>
<td>Installation method</td>
<td>Wall mounting type</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-25℃~+55℃</td>
</tr>
<tr>
<td>Elevation of temperature</td>
<td>2km</td>
</tr>
<tr>
<td>Permissible relative humidity</td>
<td>0~95% , no condensation</td>
</tr>
</tbody>
</table>
AC COMBINER BOX TYPE

1. Suntree electric
2. Product model (combiner box)
3. PV AC
4. Input channel (4/8/8)
5. Output channel
6. AC400V/AC480V/AC690V
SHLX GRID-CONNECTED BOX

- Protection rating IP65
- With short-circuit, over-voltage, under-voltage protection
- Automatically closing
- Surge protection
- Disconnect obliviously, repair directly in box when repair power issue
- With metering installation location to visualize power

TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Model</th>
<th>SHLX-3000</th>
<th>SHLX-5000</th>
<th>SHLX-10000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max input voltage</td>
<td>275</td>
<td>275</td>
<td>460</td>
</tr>
<tr>
<td>Input current per string (A)</td>
<td>15</td>
<td>25</td>
<td>20</td>
</tr>
<tr>
<td>Rated working voltage (V)</td>
<td>220</td>
<td>220</td>
<td>380</td>
</tr>
<tr>
<td>Overvoltage protection level (up)</td>
<td>&lt;1.8KV</td>
<td>&lt;1.8KV</td>
<td>&lt;1.8KV</td>
</tr>
<tr>
<td>Nominal discharge current (in)</td>
<td>20KA</td>
<td>20KA</td>
<td>20KA</td>
</tr>
<tr>
<td>Max discharge current (imax)</td>
<td>40KA</td>
<td>40KA</td>
<td>40KA</td>
</tr>
<tr>
<td>Response time</td>
<td>25ns</td>
<td>25ns</td>
<td>25ns</td>
</tr>
<tr>
<td>Operational environment</td>
<td>Working temperature: -40°C~+85°C, humidity 95%, No condensation, no corrosive gas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Altitude</td>
<td>≤2500m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surge protection device</td>
<td>SUP1-40 2P 20-40KA</td>
<td>SUP1-40 2P 20-40KA</td>
<td>SUP1-40 4P 20-40KA</td>
</tr>
<tr>
<td>Box material</td>
<td>Engineering plastics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Box protection grade</td>
<td>IP65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable gland protection grade</td>
<td>IP66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Size (w x h x d)</td>
<td>219 x 200</td>
<td>219 x 200</td>
<td>381 x 230</td>
</tr>
</tbody>
</table>

DESCRIPTION

Distributed PV grid distribution box main for distributed PV power system. Connect and protect inverter and grid. Integrate switch components and meters. With cold rolled plate box (waterproof IP65). Inside installed with grid dedicated switch. Function like: over voltage, under voltage, delay action, automatically closing after voltage recovery. Inside surge protection device can protect against lightning. Knife switch disconnect obliviously when in maintenance. Integrated meter PV distribution box make easy installation functional and satisfy the power requirements.
**SHLX-AC4/1 AC COMBINER BOX**

- High reliability
  - With AC Surge Protection Device
  - With DC circuit breaker, rated voltage AC690V
- Strong adaptability
  - IP65 design, waterproof, anti dust and anti ultraviolet.
  - Strict test for high and low temperature, used widely.
  - The simple installation, the simplified system wiring, the convenient wiring.
  - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
  - Used for AC output of 1-50kw inverter. Current rating of the photovoltaic fuse, circuit breaker is modified.

---

**DESCRIPTION**

SHLX-AC4/1 AC PV combiner box is applicable to the PV group on power system. It is an important part to undertake series inverter and AC power distribution cabinet or a step-up transformer and access up to four sets of photovoltaic group on inverter into line with the input of circuit breaker and output line with circuit breaker or the load isolating switch. Bus bar with two levels of lightning protection. Highest rated system voltage is AC690V, IP65 Protection class same as inverter. Installed outdoor. With waterproof, dustproof, anti UV, anti salt spray corrosion etc. function.

The combiner box greatly simplifies the connection between series inverter and AC power distribution cabinet or boost transformer. Simple and clear internal structure make reasonable wiring.

High reliability and simple maintenance. Outdoor wall mounted can adapt to the harsh environment. In addition to the material and size, it can be customized according to user requirements.
# TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Product model</th>
<th>SHLX-AC4/1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of input strings</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>maximum input voltage</strong></td>
<td>AC690</td>
</tr>
<tr>
<td><strong>Input current for each string</strong></td>
<td>0~100A</td>
</tr>
<tr>
<td><strong>maximum input current</strong></td>
<td>250A</td>
</tr>
<tr>
<td><strong>Rated working voltage Un</strong></td>
<td>480VAC</td>
</tr>
<tr>
<td><strong>voltage protection level</strong></td>
<td>≤3.2KV</td>
</tr>
<tr>
<td><strong>Nominal discharge current(8/20us)</strong></td>
<td>20KA(customizable)</td>
</tr>
<tr>
<td><strong>Maximum discharge current Imax(8/20us)</strong></td>
<td>40KA(customizable)</td>
</tr>
<tr>
<td><strong>Response time</strong></td>
<td>&lt;25μs</td>
</tr>
<tr>
<td><strong>Temperature and humidity</strong></td>
<td>Working temperature: -40~+85℃, humidity 95%, no condensation, No corrosive gas</td>
</tr>
<tr>
<td><strong>Elevation</strong></td>
<td>≤4km</td>
</tr>
<tr>
<td><strong>Input and output switch</strong></td>
<td>Circuit breaker</td>
</tr>
<tr>
<td><strong>surge protector</strong></td>
<td>Standard</td>
</tr>
<tr>
<td><strong>Box material</strong></td>
<td>Galvanized steel/stainless steel/cold rolled steel sheet/plastics</td>
</tr>
<tr>
<td><strong>Enclosure protection grade</strong></td>
<td>IP65</td>
</tr>
<tr>
<td><strong>Cable grade protection grade</strong></td>
<td>IP65</td>
</tr>
<tr>
<td><strong>Volume (Width×High×Depth)</strong></td>
<td>800mm×600mm×200mm</td>
</tr>
</tbody>
</table>

# SCHEMATIC DIAGRAM

![Schematic Diagram](image-url)
**SHLX-AC6/1 AC COMBINER BOX**

- **High reliability**
  - With AC Surge Protection Device
  - With DC circuit breaker, rated voltage AC690V
- **Strong adaptability**
  - IP65 design, waterproof, anti dust and anti ultraviolet.
  - Strict test for high and low temperature, used widely.
  - The simple installation, the simplified system wiring, the convenient wiring.
  - The box body is made of cold rolled steel and other metal materials.
- **Flexible configuration**
  - Used for AC output of 1-50kw inverter. Current rating of the photovoltaic fuse, circuit breaker is modified.

**DESCRIPTION**

SHLX-AC6/1 AC PV combiner box is applicable to the PV group on power system. It is an important part to undertake series inverter and AC power distribution cabinet or a step-up transformer and access up to four sets of photovoltaic group on inverter. Into line with the input of circuit breaker and output line with circuit breaker or the load isolating switch. Bus bar with two levels of lightning protection. Highest rated system voltage is AC690V. IP65 Protection class same as inverter. Installed outdoor. With waterproof, dustproof, anti UV, anti salt spray corrosion etc. function.

The combiner box greatly simplifies the connection between series inverter and AC power distribution cabinet or boost transformer. Simple and clear internal structure make reasonable wiring.

High reliability and simple maintenance. Outdoor wall mounted can adapt to the harsh environment. In addition to the material and size, it can be customized according to user requirements.
TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Product model</th>
<th>SHLX-AC6/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of input strings</td>
<td>6</td>
</tr>
<tr>
<td>Maximum input voltage</td>
<td>AC690</td>
</tr>
<tr>
<td>Input current for each string</td>
<td>0–100A</td>
</tr>
<tr>
<td>Maximum input current</td>
<td>400A</td>
</tr>
<tr>
<td>Rated working voltage Un</td>
<td>480VAC</td>
</tr>
<tr>
<td>Voltage protection level</td>
<td>≤3.2Kv</td>
</tr>
<tr>
<td>Nominal discharge current(8/20us)</td>
<td>20KA(customizable)</td>
</tr>
<tr>
<td>Maximum discharge current Imax(8/20us)</td>
<td>40KA(customizable)</td>
</tr>
<tr>
<td>Response time</td>
<td>&lt;25ns</td>
</tr>
<tr>
<td>Temperature and humidity</td>
<td>Working temperature: -40--+85 humidity 95%, no condensation, No corrosive gas</td>
</tr>
<tr>
<td>Elevation</td>
<td>≤4km</td>
</tr>
<tr>
<td>Input and output switch</td>
<td>Circuit breaker</td>
</tr>
<tr>
<td>Surge protector</td>
<td>Standard</td>
</tr>
<tr>
<td>Box material</td>
<td>Galvanized steel/stainless steel/cold rolled steel sheet/plastics</td>
</tr>
<tr>
<td>Enclosure protection grade</td>
<td>IP65</td>
</tr>
<tr>
<td>Cable grade protection grade</td>
<td>IP65</td>
</tr>
<tr>
<td>Volume (Width×Height×Depth)</td>
<td>800mm×800mm×200mm</td>
</tr>
</tbody>
</table>

SCHEMATIC DIAGRAM
**SHLX-AC8/1 AC COMBINER BOX**

- High reliability
  - With AC Surge Protection Device
  - With DC circuit breaker, rated voltage AC690V
- Strong adaptability
  - IP65 design, waterproof, anti dust and anti ultraviolet.
  - Strict test for high and low temperature, used widely.
  - The simple installation, the simplified system wiring, the convenient wiring.
  - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
  - Used for AC output of 1-50kw inverter. Current rating of the photovoltaic fuse, circuit breaker is modified.

---

**DESCRIPTION**

SHLX-AC8/1 AC PV combiner box is applicable to the PV group on power system. It is an important part to undertake series inverter and AC power distribution cabinet or a step-up transformer and access up to four sets of photovoltaic group on inverter. Into line with the input of circuit breaker and output line with circuit breaker or the load isolating switch. Bus bar with two levels of lightning protection. Highest rated system voltage is AC690V. IP65 Protection class same as inverter. Installed outdoor. With waterproof, dustproof, anti UV, anti salt spray corrosion etc. function.

The combiner box greatly simplifies the connection between series inverter and AC power distribution cabinet or boost transformer. Simple and clear internal structure make reasonable wiring.

High reliability and simple maintenance. Outdoor wall mounted can adapt to the harsh environment. In addition to the material and size, it can be customized according to user requirements.
TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product model</td>
<td>SHLX-ACB/1</td>
</tr>
<tr>
<td>Number of input strings</td>
<td>6</td>
</tr>
<tr>
<td>Maximum input voltage</td>
<td>AC690</td>
</tr>
<tr>
<td>Input current for each string</td>
<td>0–100A</td>
</tr>
<tr>
<td>Maximum input current</td>
<td>630A</td>
</tr>
<tr>
<td>Rated working voltage Un</td>
<td>480VAC</td>
</tr>
<tr>
<td>Voltage protection level</td>
<td>≤3.2kV</td>
</tr>
<tr>
<td>Nominal discharge current (8/20μs)</td>
<td>20kA (customizable)</td>
</tr>
<tr>
<td>Maximum discharge current Imax (8/20μs)</td>
<td>40kA (customizable)</td>
</tr>
<tr>
<td>Response time</td>
<td>&lt;25ns</td>
</tr>
<tr>
<td>Temperature and humidity</td>
<td>Working temperature: -40~+85℃, humidity: 95%, no condensation, no corrosive gas</td>
</tr>
<tr>
<td>Elevation</td>
<td>≤4km</td>
</tr>
<tr>
<td>Input and output switch</td>
<td>Circuit breaker</td>
</tr>
<tr>
<td>Surge protector</td>
<td>Standard</td>
</tr>
<tr>
<td>Box material</td>
<td>Galvanized steel/stainless steel/cold rolled steel sheet/plastics</td>
</tr>
<tr>
<td>Enclosure protection grade</td>
<td>IP65</td>
</tr>
<tr>
<td>Cable grade protection grade</td>
<td>IP66</td>
</tr>
<tr>
<td>Volume (Width×Height×Depth)</td>
<td>800mm×1000mm×200mm</td>
</tr>
</tbody>
</table>

SCHEMATIC DIAGRAM