6 Power Supply Facilities

6.1 Power Module

6.1.1 1600 W DC Power Module

Version Mapping

Table 6-1 Switch chassis and software versions matching a 1600 W DC power module

Model	Power Module Name	S7700 Chassis
ES02PSD16	1600 W DC power module	S7703, S7706 and S7712 chassis: supported in V100R003C01 and later versions S7703 PoE and S7706 PoE chassis: not supported

Appearance

A 1600 W DC power module is 3 U in height.

Figure 6-1 1600 W DC power module

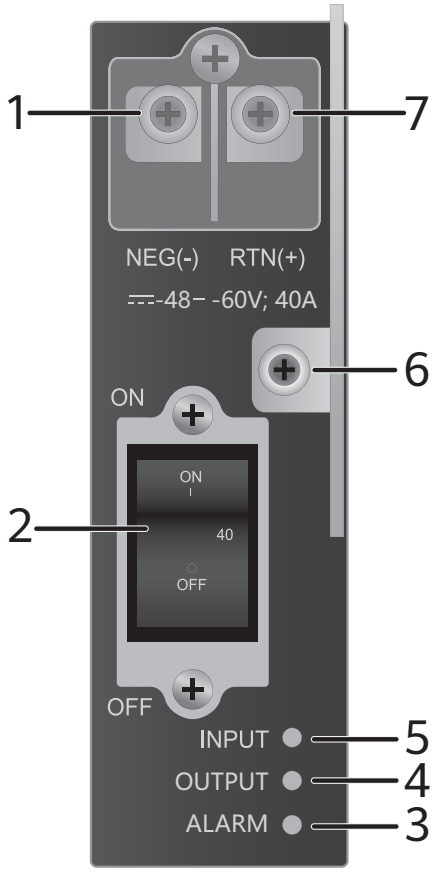
Functions

A 1600 W DC power module provides a maximum of 1600 W power for the chassis and has the following functions:

- EMC filtering, surge protection, and short circuit protection
- Alarms about various power supply events, for example, no power input, air breaker status, ineffective surge protection, and input undervoltage
- The power module is hot swappable.

Panel Description

Figure 6-2 Panel of a 1600 W DC power module



1. NEG terminal	2. Power switch **NOTE** • ON: The power module is supplying power. • OFF: The power module is not supplying power.	3. ALARM indicator
4. OUTPUT indicator	5. INPUT indicator	6. Ejector lever **NOTE** Raise the ejector lever to release the power module from the slot, and lower the ejector lever to lock the power module in the slot.
7. RTN terminal	—	—

Table 6-2 Indicators on a 1600 W DC power module panel

Indicator	Color	Description
INPUT	Green	Steady on: The input power is normal. Off: The power module receives no power input or its power cables are reversely connected.
OUTPUT	Green	Steady on: The output power of the power module is in the normal range. Off: The power module provides no output power.
ALARM	Red	Steady on: The protection circuit has failed. Off: The protection circuit is working properly.

Table 6-3 describes the relationship between cables and the terminals on a 1600 W DC power module.

Table 6-3 Relationship between cables and the terminals on a 1600 W DC power module

Input Terminal Identifier	Cable Type	Cable Color	Connected Terminal
RTN **NOTE** RTN indicates return.	Power ground cable	Black	OT bare crimp terminal
NEG	Power cable	Blue	

Specifications

Table 6-4 Technical specifications of a 1600 W DC power module

Item		Value
Dimensions (H x W x D)		130 mm x 41 mm x 393 mm (5.1 in. x 1.6 in. x 15.5 in.)
Weight		< 2.5 kg
Input	Rated input voltage	-48 V DC/-60 V DC
	Input voltage range	-38.4 V DC to -72 V DC
	Maximum input current	40 A

Item		Value
Output	Rated output voltage	-48 V DC/-60 V DC
	Output voltage range	-38.4 V DC to -72 V DC
	Maximum output current	40 A
	Maximum output power	1600 W
Hot swapping		Supported
Part number		02310NKX

6.1.2 2200 W DC Power Module

Version Mapping

Table 6-5 Switch chassis and software versions matching a 2200 W DC power module

Model	Power Module Name	S7700 Chassis
W2PSD2200	2200 W DC power module	S7703, S7706 and S7712 chassis: supported in V200R003C00 and later versions S7703 PoE and S7706 PoE chassis: supported in V200R013C00 and later versions

Appearance

A 2200 W DC power module is 3 U in height.

Figure 6-3 2200 W DC power module (W2PSD2200)

Functions

A 2200 W DC power module provides a maximum power of 2200 W for the chassis. **Table 6-6** describes the functions of a 2200 W DC power module.

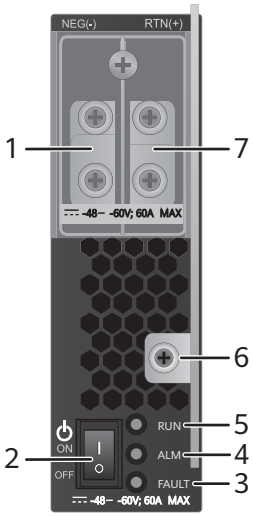
Table 6-6 Functions of a 2200 W DC power module

Function		Description
Input protection	Input undervoltage protection	In this protection state, the power module is turned off and stops supplying power. When the system recovers from input undervoltage, the power module can automatically start supplying power again.
	Input overcurrent protection	In this protection state, the power module is turned off and stops supplying power. The power module cannot automatically start supplying power again and needs to be replaced.

Function		Description
Output protection	Output overvoltage protection	In this protection state: • If output overvoltage is caused by the power module itself, the power module stops supplying power. When the system recovers from output overvoltage, the power module cannot automatically start supplying power again. • If output overvoltage is caused by increase of the input voltage received from the external power source, the power module stops supplying power. When the system recovers from output overvoltage, the power module can automatically start supplying power again.
	Output overcurrent protection	In this protection state, the output current is limited to a certain value. When the system recovers from output overcurrent, the power module can automatically start supplying power again.
	Output short-circuit protection	In this protection state, the power module supplies power intermittently, and the output current is limited to a range. When the system recovers from output short-circuit, the power module can automatically start supplying power again.
Overtemperature protection		When the temperature of the power module exceeds a specified threshold, the power module stops supplying power. When the temperature falls into the normal range, the power module automatically resumes power supply.
Hot swapping		The power module is hot swappable.

Panel Description

Figure 6-4 Panel of a 2200 W DC power module



1. NEG terminal	2. Power switch **NOTE** • ON: The power module is supplying power. • OFF: The power module is not supplying power.	3. FAULT indicator
4. ALM indicator	5. RUN indicator	6. Ejector lever **NOTE** Raise the ejector lever to release the power module from the slot, and lower the ejector lever to lock the power module in the slot.
7. RTN terminal	-	-

Table 6-7 Indicators on a power module panel

Indicator	Color	Description
FAULT	Red	Steady on: The power module has a fault that cannot be rectified.

Indicator	Color	Description
ALM	Yellow	Steady on: A power output shutdown alarm, overtemperature alarm, output overcurrent alarm, input overvoltage alarm, or input undervoltage alarm has been generated. Blinking: Communication with the monitoring device (MCU or CMU) has been interrupted.
RUN	Green	Steady on: The power input is normal.

Table 6-8 describes the relationship between cables and the terminals on a 2200 W DC power module.

Table 6-8 Relationship between cables and the terminals on a 2200 W DC power module

Input Terminal Identifier	Cable Type	Cable Color	Connected Terminal
RTN **NOTE** RTN indicates return.	Power ground cable	Black	OT bare crimp terminal
NEG	Power cable	Blue	

Specifications

Table 6-9 Technical specifications of a 2200 W DC power module

Item		Value
Dimensions (H x W x D)		130 mm x 41 mm x 393 mm (5.1 in. x 1.6 in. x 15.5 in.)
Weight		< 2.5 kg
Input	Rated input voltage	-48 V DC/-60 V DC
	Input voltage range	-40 V DC to -72 V DC
	Maximum input current	60 A

Item		Value
Output	Rated output voltage	-53.5 V DC
	Output voltage range	-42 V DC to -58 V DC
	Maximum output current	42 A
	Maximum output power	2200 W
Hot swapping		Supported
Part number		02270117

6.1.3 800 W AC Power Module

Version Mapping

Table 6-10 Switch chassis and software versions matching an 800 W AC power module

Model	Power Module Name	S7700 Chassis
W2PSA0800	800 W AC power module	S7703, S7706 and S7712 chassis: supported in V100R003C01 and later versions S7703 PoE and S7706 PoE chassis: supported in V200R013C00 and later versions

Appearance

An 800 W AC power module is 3 U in height.

Figure 6-5 800 W AC power module

Functions

An 800 W AC power module provides a maximum power of 800 W for the chassis. **Table 6-11** describes the functions of an 800 W AC power module.

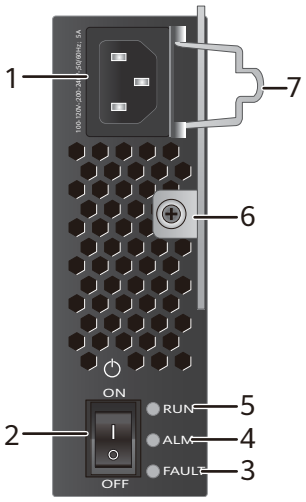
Table 6-11 Functions of an 800 W AC power module

Function		Description
Input protection	Input undervoltage protection	In this protection state, the power module is turned off and stops supplying power. When the system recovers from input undervoltage, the power module can automatically start supplying power again.
	Input overcurrent protection	In this protection state, the power module is turned off and stops supplying power. The power module cannot automatically start supplying power again and needs to be replaced.

Function		Description
Output protection	Output overvoltage protection	In this protection state: • If output overvoltage is caused by the power module itself, the power module stops supplying power. When the system recovers from output overvoltage, the power module cannot automatically start supplying power again. • If output overvoltage is caused by increase of the input voltage received from the external power source, the power module stops supplying power. When the system recovers from output overvoltage, the power module can automatically start supplying power again.
	Output overcurrent protection	In this protection state, the output current is limited to a certain value. When the system recovers from output overcurrent, the power module can automatically start supplying power again.
	Output short-circuit protection	In this protection state, the power module supplies power intermittently, and the output current is limited to a range. When the system recovers from output short-circuit, the power module can automatically start supplying power again.
Overtemperature protection		When the temperature of the power module exceeds a specified threshold, the power module stops supplying power. When the temperature falls into the normal range, the power module automatically resumes power supply.
Hot swapping		The power module is hot swappable.

Panel Description

Figure 6-6 Panel of an 800 W AC power module



1. AC power socket	2. Power switch **NOTE** • ON: The power module is supplying power. • OFF: The power module is not supplying power.	3. FAULT indicator
4. ALM indicator	5. RUN indicator	6. Ejector lever **NOTE** Raise the ejector lever to release the power module from the slot, and lower the ejector lever to lock the power module in the slot.
7. Loose-proof pinch	-	-

Table 6-12 Indicators on a power module panel

Indicator	Color	Description
FAULT	Red	Steady on: The power module has a fault that cannot be rectified.
ALM	Yellow	Steady on: A power output shutdown alarm, overtemperature alarm, output overcurrent alarm, input overvoltage alarm, or input undervoltage alarm has been generated. Blinking: Communication with the monitoring device (MCU or CMU) has been interrupted.

Indicator	Color	Description
RUN	Green	Steady on: The power input is normal.

Specifications

Table 6-13 Technical specifications of an 800 W AC power module

Item		Value
Dimensions (H x W x D)		130 mm x 41 mm x 393 mm (5.1 in. x 1.6 in. x 15.5 in.)
Weight		< 2.5 kg
Input	Rated input voltage	220 V AC/110 V AC; 50/60 Hz
	Rated input voltage range	200 V AC to 240 V AC (220 V AC input)/100 V AC to 120 V AC (110 V AC input); 47 Hz to 63 Hz
	Maximum input voltage range	90 V AC to 290 V AC; 47 Hz to 63 Hz (When the input voltage is in the range of 90 V AC to 175 V AC, the power module provides up to half of the maximum output power.)
	Maximum input current	5 A
Output	Maximum output current	15 A (220 V AC input)/7.5 A (110 V AC input)
	Maximum output power	800 W (220 V AC input)/400 W (110 V AC input)
Hot swapping		Supported
Part number		02130979

6.1.4 2200 W AC Power Module

Version Mapping

Table 6-14 Switch chassis and software versions matching a 2200 W AC power module

Model	Power Module Name	S7700 Chassis
W2PSA2230	2200 W AC power module	S7703, S7706 and S7712 chassis: In V100R006C00, this power module is supported only in the PoE power module slots. In V200R001C00 and later versions, this power module is supported in all the power module slots. S7703 PoE and S7706 PoE chassis: supported in V200R013C00 and later versions
PAC-2200WF **NOTE** PAC-2200WF has replaced W2PSA2230 since Feb, 2015.	2200 W AC power module	S7703, S7706 and S7712 chassis: In V100R006C00 and V200R001C00, this power module is supported only in the PoE power module slots. In V200R002C00 and later versions, this power module is supported in all the power module slots. S7703 PoE and S7706 PoE chassis: supported in V200R013C00 and later versions

Appearance

A 2200 W AC power module is 3 U in height.

Figure 6-7 2200 W AC power module (W2PSA2230)

Figure 6-8 2200 W AC power module (PAC-2200WF)

NOTE

Do not insert the power cable locking strap into an air vent on the power module panel, as this will affect operations of the power module.

Functions

A 2200 W AC power module provides a maximum power of 2200 W for the chassis. **Table 6-15** describes the functions of a 2200 W AC power module.

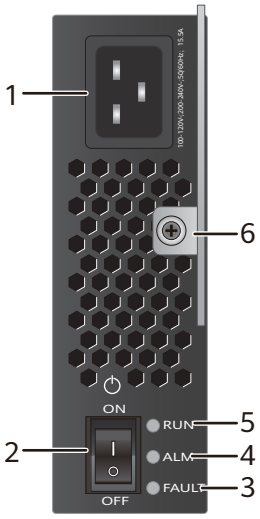
Table 6-15 Functions of a 2200 W AC power module

Function		Description
Input protection	Input undervoltage protection	In this protection state, the power module is turned off and stops supplying power. When the system recovers from input undervoltage, the power module can automatically start supplying power again.
	Input overcurrent protection	In this protection state, the power module is turned off and stops supplying power. The power module cannot automatically start supplying power again and needs to be replaced.

Function		Description
Output protection	Output overvoltage protection	In this protection state: • If output overvoltage is caused by the power module itself, the power module stops supplying power. When the system recovers from output overvoltage, the power module cannot automatically start supplying power again. • If output overvoltage is caused by increase of the input voltage received from the external power source, the power module stops supplying power. When the system recovers from output overvoltage, the power module can automatically start supplying power again.
	Output overcurrent protection	In this protection state, the output current is limited to a certain value. When the system recovers from output overcurrent, the power module can automatically start supplying power again.
	Output short-circuit protection	In this protection state, the power module supplies power intermittently, and the output current is limited to a range. When the system recovers from output short-circuit, the power module can automatically start supplying power again.
Overtemperature protection		When the temperature of the power module exceeds a specified threshold, the power module stops supplying power. When the temperature falls into the normal range, the power module automatically resumes power supply.
Hot swapping		The power module is hot swappable.

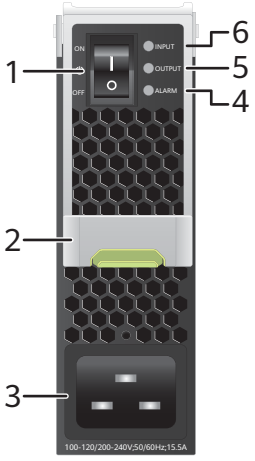
Panel Description

Figure 6-9 Panel of a 2200 W AC power module (W2PSA2230)



1. Power socket	2. Power switch **NOTE** • ON: The power module is supplying power. • OFF: The power module is not supplying power.	3. FAULT indicator
4. ALM indicator	5. RUN indicator	6. Ejector lever **NOTE** Raise the ejector lever to release the power module from the slot, and lower the ejector lever to lock the power module in the slot.

Figure 6-10 Panel of a 2200 W AC power module (PAC-2200WF)



1. Power switch **NOTE** • When the power switch is turned ON, the power module supplies power to the chassis. • When the power switch is turned OFF, the power module does not supply power to the chassis.	2. Ejector lever **NOTE** Raise the ejector lever to release the power module from the slot, and lower the ejector lever to lock the power module in the slot.	3. Power socket
4. ALARM indicator	5. OUTPUT indicator	6. INPUT indicator

Table 6-16 Indicators on a power module panel (W2PSA2230)

Indicator	Color	Description
FAULT	Red	Steady on: The power module has a fault that cannot be rectified.
ALM	Yellow	Steady on: A power output shutdown alarm, overtemperature alarm, output overcurrent alarm, input overvoltage alarm, or input undervoltage alarm has been generated. Blinking: Communication with the monitoring device (MCU or CMU) has been interrupted.
RUN	Green	Steady on: The power input is normal.

Table 6-17 Indicators on a power module panel (PAC-2200WF)

Indicator	Color	Description
INPUT	Green	Steady on: The input power of the power module is in the normal range. Blinking: The power module is in an input undervoltage or input overvoltage condition. Off: The power module receives no input power.
OUTPUT	Green	Steady on: The output power of the power module is in the normal range. Off: The power module provides no output power.
ALARM	Red	Steady on: The power module is experiencing overheating, external short circuit, output overvoltage, output overcurrent, or a fan failure. Blinking: Communication between the power module and CMU has been interrupted. Off: The power module is working normally.

Specifications

Table 6-18 Technical specifications of a 2200 W AC power module

Item		Value
Dimensions (H x W x D)		130 mm x 41 mm x 393 mm (5.1 in. x 1.6 in. x 15.5 in.)
Weight		< 2.5 kg
Input	Rated input voltage	220 V AC/110 V AC; 50/60 Hz
	Rated input voltage range	200 V AC to 240 V AC (220 V AC input)/100 V AC to 120 V AC (110 V AC input); 47 Hz to 63 Hz
	Maximum input voltage range	90 V AC to 290 V AC; 47 Hz to 63 Hz (The maximum output power reduces by a half when the input voltage is in the range of 90 V AC to 175 V AC.)
	Maximum input current	15.5 A
Output	Maximum output current	42 A (220 V AC input)/21 A (110 V AC Input)
	Maximum output power	2200 W (220 V AC input)/1100 W (110 V AC input)
Hot swapping		Supported
Part number		W2PSA2230: 02130977 PAC-2200WF: 02131120

6.1.5 3000 W AC Power Module

Version Mapping

Table 6-19 Switch chassis and software versions matching a 3000 W AC power module

Model	Power Module Name	S7700 Chassis
PAC3KS54-CB	3000 W AC power module (Black)	S7703, S7706, and S7712 chassis: supported in V200R012C00 and later versions S7703 PoE and S7706 PoE chassis: supported in V200R013C00 and later versions
PAC3KS54-CE	3000 W AC power module (Black)	S7703, S7706, and S7712 chassis: supported in V200R013C02 and later versions S7703 PoE and S7706 PoE chassis: supported in V200R019C00 and later versions

Appearance

A 3000 W AC power module is 3 U in height.

Figure 6-11 3000 W AC power module (Black)

NOTE

Do not insert the power cable locking strap into an air vent on the power module panel, as this will affect operations of the power module.

Functions

A 3000 W AC power module provides a maximum power of 3000 W for the chassis. **Table 6-20** describes the functions of a 3000 W AC power module.

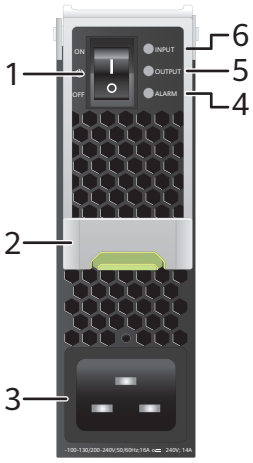
Table 6-20 Functions of a 3000 W AC power module

Function		Description
Input protection	Input overvoltage protection	In this protection state, the power module is turned off and stops supplying power. When the system recovers from input overvoltage, the power module can automatically start supplying power again.
	Input undervoltage protection	In this protection state, the power module is turned off and stops supplying power. When the system recovers from input undervoltage, the power module can automatically start supplying power again.
	Input overcurrent protection	In this protection state, the power module is turned off and stops supplying power. The power module cannot automatically start supplying power again and needs to be replaced.
Output protection	Output overvoltage protection	In this protection state: • If output overvoltage is caused by the power module itself, the power module stops supplying power. When the system recovers from output overvoltage, the power module cannot automatically start supplying power again. • If output overvoltage is caused by increase of the input voltage received from the external power source, the power module stops supplying power. When the system recovers from output overvoltage, the power module can automatically start supplying power again.
	Output overcurrent protection	In this protection state, the output current is limited to a certain value. When the system recovers from output overcurrent, the power module can automatically start supplying power again.

Function		Description
	Output short-circuit protection	In this protection state, the power module supplies power intermittently, and the output current is limited to a range. When the system recovers from output short-circuit, the power module can automatically start supplying power again.
Overtemperature protection		When the temperature of the power module exceeds a specified threshold, the power module stops supplying power. When the temperature falls into the normal range, the power module automatically resumes power supply.
Hot swapping		The power module is hot swappable.

Panel Description

Figure 6-12 Panel of a 3000 W AC power module (Black)



1. Power switch **NOTE** • When the power switch is turned ON, the power module supplies power to the chassis. • When the power switch is turned OFF, the power module does not supply power to the chassis.	2. Ejector lever **NOTE** Raise the ejector lever to release the power module from the slot, and lower the ejector lever to lock the power module in the slot.	3. Power socket
4. ALARM indicator	5. OUTPUT indicator	6. INPUT indicator

Table 6-21 Indicators on a power module panel

Indicator	Color	Description
INPUT	Green	Steady on: The input power of the power module is in the normal range. Blinking: The power module is in an input undervoltage or input overvoltage condition. Off: The power module receives no input power.
OUTPUT	Green	Steady on: The output power of the power module is in the normal range. Off: The power module provides no output power.
ALARM	Red	Steady on: The power voltage is experiencing overtemperature, external short circuit, output overvoltage, output overcurrent, or a fan failure. Blinking: Communication between the power module and CMU has been interrupted. Off: The power module is working normally.

Specifications

Table 6-22 Technical specifications of a 3000 W AC power module

Item		Value
Dimensions (H x W x D)		130 mm x 41 mm x 417.4 mm (5.1 in. x 1.6 in. x 16.4 in.)
Weight		< 3.0 kg
AC input	Rated input voltage	220 V AC/110 V AC; 50/60 Hz
	Rated input voltage range	200 V AC to 240 V AC (220 V AC input)/100 V AC to 130 V AC (110 V AC input); 47 Hz to 63 Hz
	Maximum input voltage range	90 V AC to 290 V AC; 47 Hz to 63 Hz (The maximum output power reduces by a half when the input voltage is in the range of 90 V AC to 175 V AC.) The maximum current of the power cable used by the 3000 W AC power module is 16 A. When the 220 V input is used, the minimum voltage cannot be lower than 200 V. When the 110 V input is used, the minimum voltage cannot be lower than 100 V.
	Maximum input current	16 A

Item		Value
High-voltage DC input	Rated input voltage	240 V DC
	Rated input voltage range	190 V DC to 290 V DC
	Maximum input voltage range	14 A
Output	Maximum output current	56.1 A (220 V AC input)/28.1 A (110 V AC Input)
	Maximum output power	3000 W (220 V AC input or 240 V DC)/1500 W (110 V AC input)
Hot swapping		Supported
Part number		PAC3KS54-CB: 02311XYE PAC3KS54-CE: 02312FFP

NOTE

When a PAC3KS54-CB or PAC3KS54-CE power module is used in the following chassis, its maximum output power is 2200 W:

- S7703 chassis running a version between V200R002C00 and V200R011C10 (used in a system power slot)
- S7703 chassis running a version between V100R006C00 and V200R011C10 (used in the PoE power slot)
- S7706 chassis running a version between V200R002C00 and V200R011C10 (used in a system power slot)
- S7706 chassis running a version between V100R006C00 and V200R011C10 (used in a PoE power slot)
- S7712 chassis running a version between V200R002C00 and V200R011C10 (used in a system power slot)
- S7712 chassis running a version between V100R006C00 and V200R011C10 (used in a PoE power slot)

6.2 Power Distribution Box

6.2.1 1600 W DC Power Distribution Box

Figure 6-13 shows a 1600 W DC power distribution box.

Figure 6-13 1600 W DC power distribution box

A 1600 W DC power distribution box is C3 type and provides short-circuit protection and overload protection functions.

Table 6-23 lists specifications of a 1600 W DC power distribution box.

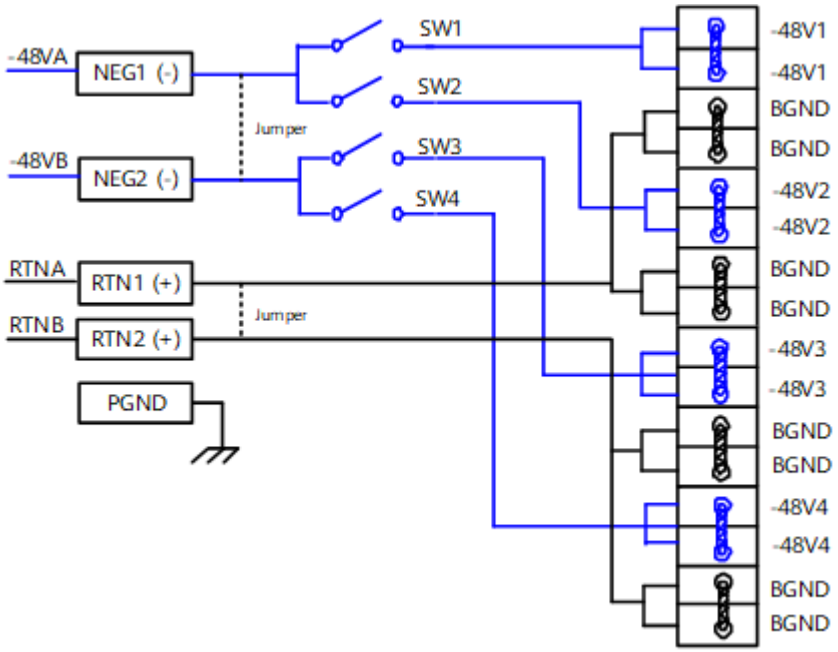
Table 6-23 Specifications of a 1600 W DC power distribution box

Item		Description
Input	Rated input voltage	-48 V DC/-60 V DC
	Input voltage range	-38.4 V DC to -72 V DC
	Input mode	Two DC inputs. By default, the two inputs are provided by different power sources. To use the same power source to provide two inputs, short circuit the two input terminals using two short-circuiting bars, as shown in **Figure 6-14**.
	Maximum input current	80 A per input
	Input terminal	M8 OT terminal
Output	Rated output voltage	-48 V DC to -60 V DC
	Output voltage	-38.4 V DC to -72 V DC
	Number of outputs	Eight outputs, controlled by four circuit breakers (Each circuit breaker controls two outputs.)
	Current of each circuit breaker	40 A

Item		Description
	Output protection	Overcurrent protection (Power supply needs to be restored manually once the power distribution box enters the overcurrent protection state.)
	Output terminal	Cord end terminal (12 AWG to 10 AWG)
Environment specifications	Operating temperature	-25°C to +55°C (-13°F to + 131°F)
	Storage temperature	-40°C to +70°C (-40°F to 158°F)
	Relative humidity	≤ 95%
	Standard atmospheric pressure	70 kPa to 106 kPa
Dimensions (H x W x D)		84.5 mm x 436 mm x 116 mm (3.3 in. x 17.2 in. x 4.6 in.)
Model		LE0W01DPDB (mounting brackets for 19-inch and 21-inch racks delivered by default)
Part number		02355416

Figure 6-14 shows power distribution in a 1600 W DC power distribution box.

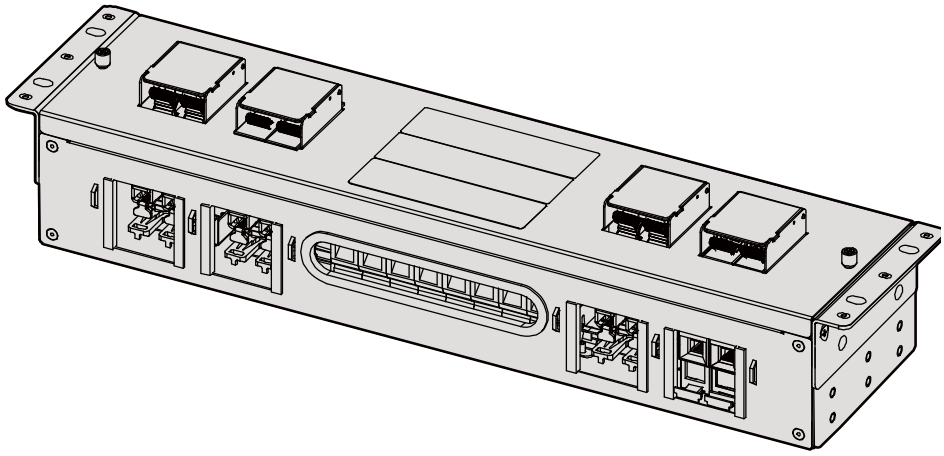
Figure 6-14 Power distribution in a 1600 W DC power distribution box



6.2.2 2200 W DC Power Distribution Box

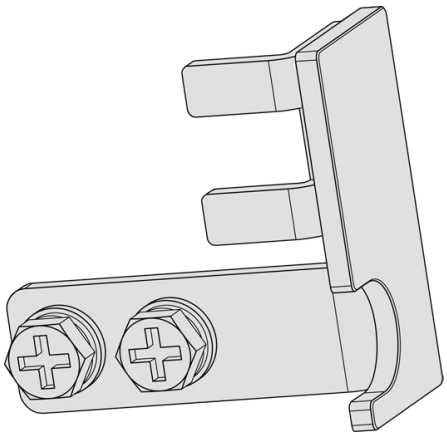
Figure 6-15 shows a 2200 W DC power distribution box.

Figure 6-15 2200 W DC power distribution box



A 2200 W DC power distribution box can use -48 V two-way short-circuiting bars, each of which provides JG input terminals. A -48 V two-way short-circuiting bar allows a maximum of 120 A input current and converts one input into two outputs to circuit breakers. **Figure 6-16** shows a -48 V two-way short-circuiting bar.

Figure 6-16 -48 V two-way short-circuiting bar



A 2200 W DC power distribution box provides short-circuit protection and overload protection.

Table 6-24 lists specifications of a 2200 W DC power distribution box.

Table 6-24 Specifications of a 2200 W DC power distribution box

Item		Description
Input	Rated input voltage	-48 V DC/-60 V DC
	Input voltage	-38.4 V DC to -72 V DC
	Input mode	Eight DC inputs by default (Short-circuiting bars can convert the eight inputs into four.)
	Maximum input current	60 A per input (120 A per input when short-circuiting bars are used)
	Input terminal	Cord end terminal, allowing power cables with a maximum of 35 mm^2 diameter (When short-circuiting bars are used, M6 OT terminals are used for -48 V input and cord end terminals are used for RTN input.)
Output	Rated output voltage	-48 V DC to -60 V DC
	Output voltage	-38.4 V DC to -72 V DC
	Number of outputs	Eight
	Current of each circuit breaker	63 A

Item		Description
	Output protection	Overcurrent protection (Power supply needs to be restored manually once the power distribution box enters the overcurrent protection state.)
	Output terminal	Cord end terminal, allowing power cables with a maximum of 35 mm^2 diameter
Environment specifications	Operating temperature	-25°C to +55°C (-13°F to +131°F)
	Storage temperature	-40°C to +70°C (-40°F to +158°F)
	Relative humidity	≤ 95%
	Standard atmospheric pressure	70 kPa to 106 kPa
Dimensions (H x W x D)		110 mm x 442 mm x 89.2 mm (4.33 in. x 17.40 in. x 3.51 in.)
Model		EH1M00PDBS01
Part number		02355419

Figure 6-17 and **Figure 6-18** show power distribution in a 2200 W DC power distribution box.

Figure 6-17 Power distribution in a 2200 W DC power distribution box (eight inputs and eight outputs)

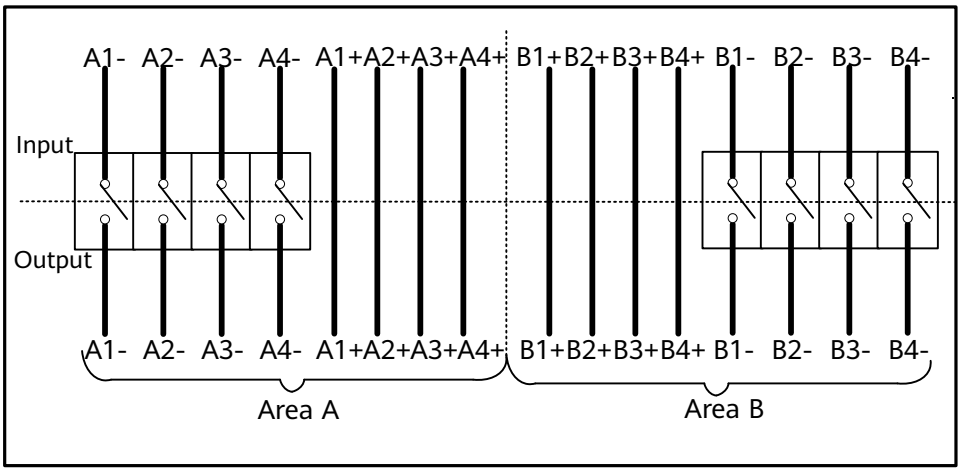
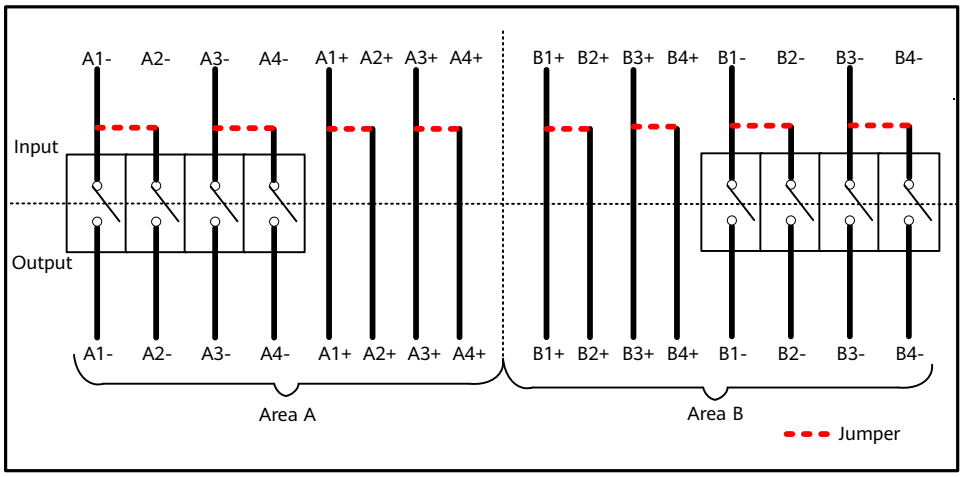


Figure 6-18 Power distribution in a 2200 W DC power distribution box (four inputs and eight outputs)



6.2.3 800 W AC Power Distribution Box

Figure 6-19 shows an 800 W AC power distribution box.

Figure 6-19 800 W AC power distribution box

An 800 W AC power distribution box can convert one power input into eight power outputs, and it provides short-circuit protection and overload protection.

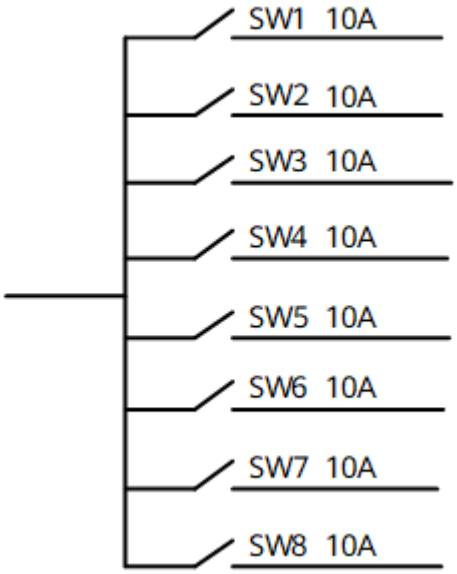
Table 6-25 lists specifications of an 800 W AC power distribution box.

Table 6-25 Specifications of an 800 W AC power distribution box

Item		Description
Input	Input voltage	Rated voltage: 100 V AC to 240 V AC Operating voltage: 90 V AC to 276 V AC
	Input terminal	Cord end terminal (applicable to 0.75-25 mm^2 power cables)
Output	Output voltage	Rated voltage: 100 V AC to 240 V AC Operating voltage: 90 V AC to 276 V AC
	Number of outputs	Eight outputs controlled by eight circuit breakers
	Current of each circuit breaker	10 A
	Output protection	Overcurrent protection (Power supply needs to be restored manually once the power distribution box enters the overcurrent protection state.)
	Output terminal	Cord end terminal (applicable to 1.0 mm^2 cables)
Environment specifications	Operating temperature	-25°C to +55°C (-13°F to +131°F)
	Storage temperature	-40°C to +70°C (-40°F to +158°F)
	Relative humidity	≤ 95%
	Standard atmospheric pressure	70 kPa to 106 kPa
Dimensions (H x W x D)		133 mm x 383 mm x 94.5 mm (5.2 in. x 15.1 in. x 3.7 in.)
Model		IN6W18L10A
Part number		02355417

Figure 6-20 shows power distribution in an 800 W AC power distribution box.

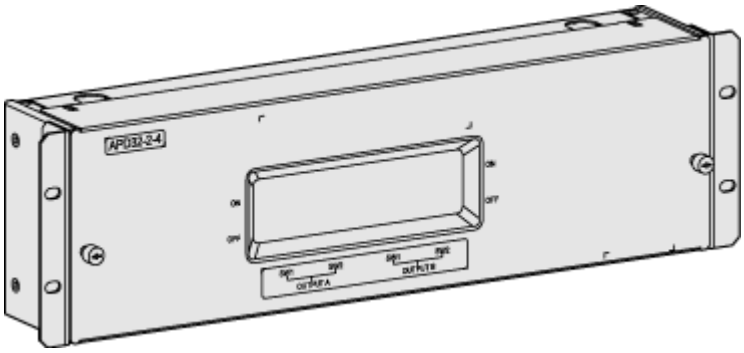
Figure 6-20 Power distribution in an 800 W AC power distribution box



6.2.4 2200 W AC Power Distribution Box

Figure 6-21 shows a 2200 W AC power distribution box.

Figure 6-21 2200 W AC power distribution box



A 2200 W AC power distribution box provides short-circuit protection and overload protection.

Table 6-26 lists specifications of a 2200 W AC power distribution box.

Table 6-26 Specifications of a 2200 W AC power distribution box

Item		Description
Input	Input voltage	Rated voltage: 100 V AC to 240 V AC Operating voltage: 90 V AC to 276 V AC

Item		Description
	Input mode	Typical application: two AC inputs (1+1). The delivered terminal block has two AC input terminals (1+1) by default.
		Three AC inputs (2+1)
		Four AC inputs (2+2)
	Maximum input current	Two AC inputs (1+1): 32 A + 32 A (maximum)
		Three AC inputs (2+1): 16 A x 2 + 32 A (maximum)
		Four AC inputs (2+2): 16 A x 4 (maximum)
	Frequency	50/60±3 Hz
Output	Output voltage	Rated voltage: 100 V AC to 240 V AC Operating voltage: 90 V AC to 276 V AC
	Number of outputs	Four outputs, with short-circuit protection function
	Current of each output	16 A (maximum)
	Output protection	Overcurrent protection and short-circuit protection (Power supply needs to be restored manually once the power distribution box enters a protection state.)
Environment specifications	Operating temperature	0°C to 45°C (32°F to 113°F)
	Storage temperature	-40°C to +70°C (-40°F to +158°F)
	Relative humidity	5% to 95%
	Altitude	-60 m to +3000 m (-197 ft. to +9483 ft.)
Safety standards compliance		EN60950-1, IEC60950-1
Environmental standards compliance		RoHS, WEEE, Huawei regulation on the 13 hazardous substances
Dimensions (H x W x D)		133 mm x 436 mm x 94.5 mm (5.2 in. x 17.2 in. x 3.7 in.)
Color		NC purple gray
Model		IM1W24APD
Part number		02355418

Figure 6-22, **Figure 6-23**, and **Figure 6-24** show power distribution in a 2200 W AC power distribution box.

NOTE

If a 2200 W AC power distribution box is connected to one or two 2200 W AC power modules, only OUTPUT A or OUTPUT B is used. In this case, only one input is required.

Figure 6-22 Power distribution in a 2200 W AC power distribution box (two inputs)

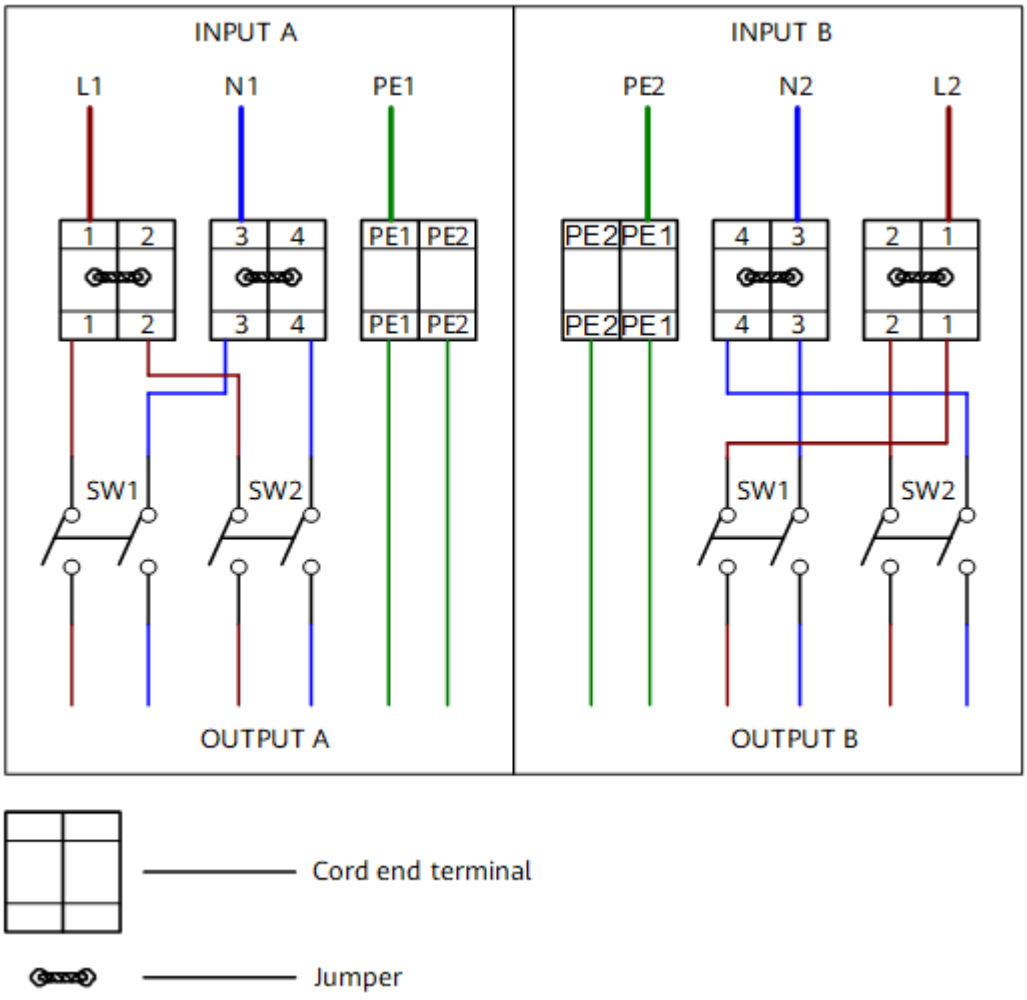


Figure 6-23 Power distribution in a 2200 W AC power distribution box (three inputs)

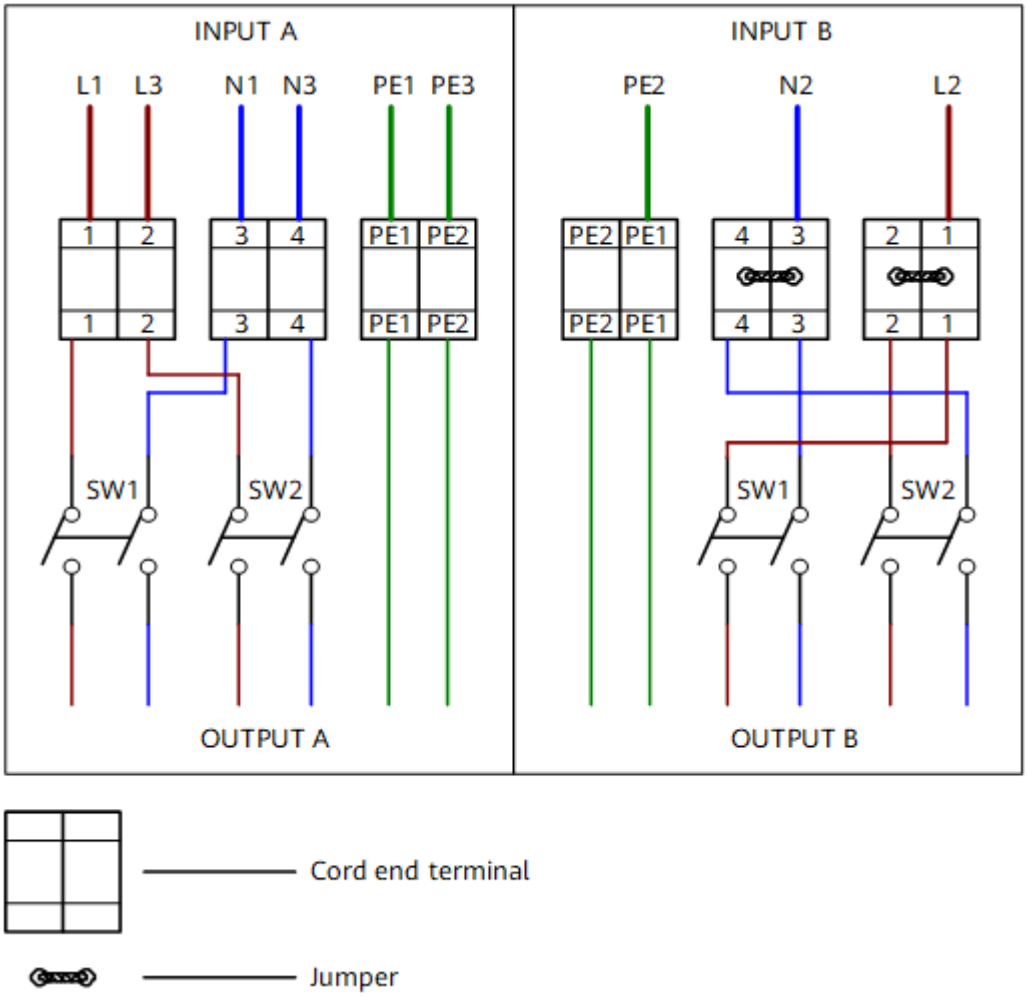


Figure 6-24 Power distribution in a 2200 W AC power distribution box (four inputs)