

Components of an ETP48100-B1

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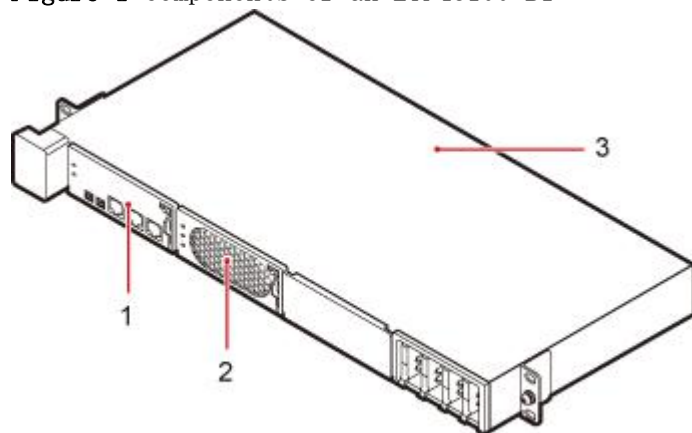
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3.2.1.4.3.9.1 Components of an ETP48100-B1

An ETP48100-B1 consists of the ETP48100-B1 subrack, PMU 11A, and PSUs (R4850G2).

The following figure shows the components of an ETP48100-B1.

Figure 1 Components of an ETP48100-B1



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(1) [PMU 11A](#)

(2) [PSU \(R4850G2\)](#)

(3) [ETP48100-B1](#)

Parent topic: [ETP48100-B1](#)

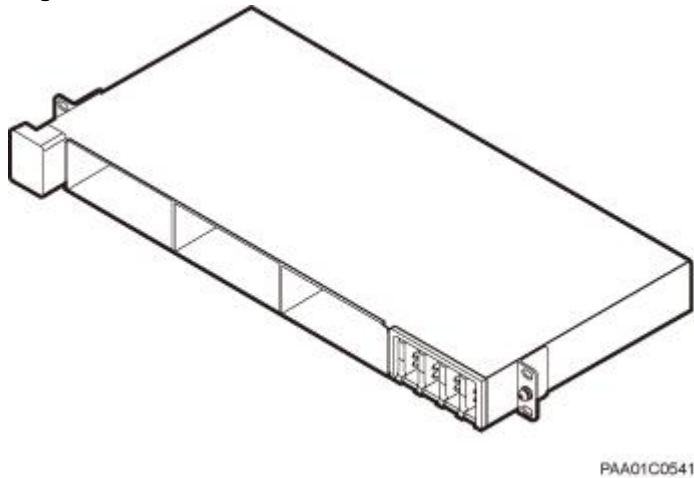
3.2.1.4.3.9.2 ETP48100-B1 Subrack

An ETP48100-B1 subrack houses the PMU 11A and PSUs (R4850G2) and distributes AC and DC power to other components.

Exterior

The following figure shows the exterior of an ETP48100-B1 subrack.

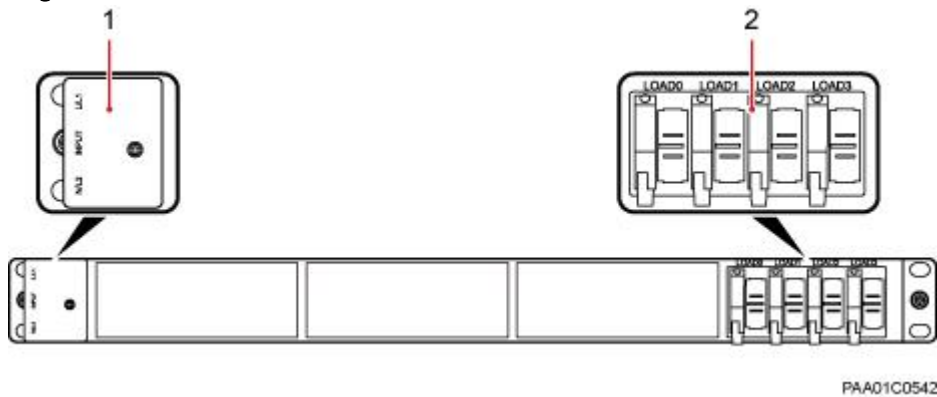
Figure 1 Exterior of an ETP48100-B1 subrack



Ports

The following figure shows the ports and terminals on an ETP48100-B1 subrack.

Figure 2 Ports and terminals on an ETP48100-B1 subrack



The following table describes the ports and terminals on an ETP48100-B1 subrack.

Table 1 Ports and terminals on an ETP48100-B1 subrack

Port or Terminal	Silkscreen	Connector	Remarks
(1) AC input terminal	INPUT	OT terminal	Connects to the AC input power cable.
(2) DC output port	OUTPUT	EPC5 connector	The LOAD0 to LOAD2 ports feed power to RRUs. The LOAD3 port feeds power to the BBU.

Technical Specifications

The following table describes the technical specifications of an ETP48100-B1.

Table 2 Technical specifications of an ETP48100-B1

Item	Specifications
Input voltage	220 V AC single-phase voltage range: 176 V AC to 290 V AC
Input voltage frequency	45 Hz to 65 Hz
Output voltage	Voltage range: -42 V DC to -58 V DC
Output current	30 A for the 220 V AC single-phase input power
Surge protection capability	2 kV in differential mode 4 kV in common mode

Parent topic: [ETP48100-B1](#)

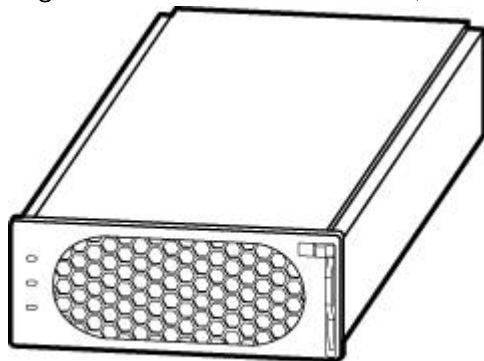
3.2.1.4.3.11.1 PSU (R4850G2)

A power supply unit (PSU) (R4850G2) converts 110 V AC or 220 V AC power into -48 V DC. It can be used in BTS3900(Ver.D), BTS3900L(Ver.D), OMB(Ver.C), and APM30H(Ver.D) cabinets.

Exterior

The following figure shows the exterior of a PSU (R4850G2).

Figure 1 Exterior of a PSU (R4850G2)



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Function

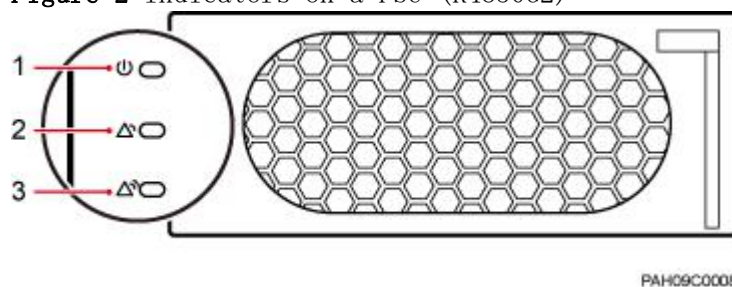
A PSU (R4850G2) performs the following functions:

- Converts 110 V AC or 220 V AC power into -48 V DC and adjusts the output voltage.
- Provides protection against overcurrent, overvoltage, and overtemperature for its DC outputs.
- Dissipates heat using its built-in fans.

Indicator

The following figure shows the indicators on a PSU (R4850G2).

Figure 2 Indicators on a PSU (R4850G2)



The following table describes the indicators on a PSU (R4850G2).

Table 1 Indicators on a PSU (R4850G2)

Silkscreen	Color	State	Description
(1) Power indicator	Green	Steady on	The board is functional.
		Blinking (on for 0.125s and off for 0.125s)	The PSU is loading software online.
		Steady off	The mains supply or the module is faulty.
(2) Protection indicator	Yellow	Steady off	Normal
		Steady on	An alarm triggered by an external factor is generated.
		Blinking (on for 1s and off for 1s)	The communication between the module and the PMU is interrupted.
(3) Fault indicator	Red	Steady off	Normal
		Steady on	The module is faulty or is shut down in an emergency. Locate the fault and replace the module.

Parent topic: [PSU](#)