Technical Specification

Table 2-12 lists technical specifications of the FTGK card.

Table 2-12 FTGK Technical Specification

Item	Specification
Power consumption	85 W
Dimensions	395.5 mm × 22.5 mm × 225 mm (Height × Width × Depth)
Weight	1.51 kg

2.4 Power Card

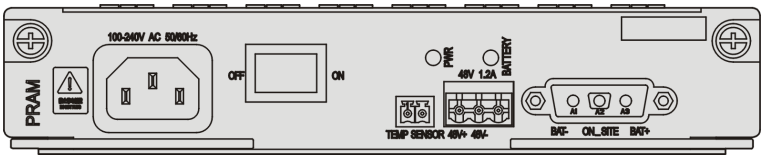
Overview

The power card PRAM card uses 110 V or 220 V AC power and provides power supply to each card.

Panel

Figure 2-8 shows the PRAM card panel.

Figure 2-8 PRAM Panel



Indicators

Table 2-13 describes the indicators of the PRAM card.

Table 2-13 PRAM Indicator Description

Indicator	Status	Description
PWR	Green LED is on.	Power is on.
	Green LED is off	Power is abnormal.
BATTERY	Green LED is on.	The battery works properly.
	Green LED flashes quickly.	The battery is discharging, or the battery is reversely connected.
	Green LED is off.	The battery is not available.

Interfaces

Table 2-14 describes the interfaces of the PRAM card.

Table 2-14 PRAM Interface Description

Interface	Description
AC power interface (100-240V AC 50/60HZ)	Connects to 110 V/220 V AC power.
DC power interface (48V 1.2A)	Provides -48 V DC output. **48V+** connects to -48 V. **48-** connects to -48 V RTN (-48 V ground).
Battery interface	Connects to a storage battery. **BAT-** connects to the negative of the battery. **BAT+** connects to the positive of the battery.
TEMP SENSOR	Connects to a temperature sensor, for battery temperature compensation. Without a temperature sensor, the default temperature is set to 25 ℃ and the floating charge voltage is 53.5 V.

Button

Table 2-15 describes the button on the PRAM panel.

Table 2-15 PRAM Button Description

Button	Description
ON/OFF	To enable/disable the power supply of the equipment

Principle Diagram

Figure 2-9 shows the principle diagram of the PRAM card.

Figure 2-9 PRAM Principle Diagram

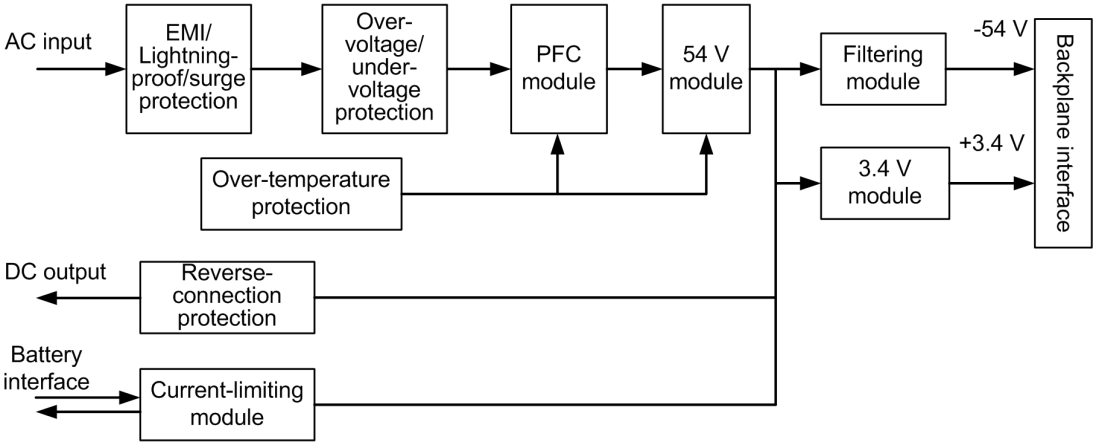


Table 2-16 describes functions of each module of the PRAM card.

Table 2-16 PRAM Module Functions

Module	Function
EMI/lightning-proof/surge protection	Implements the power input EMI (Electromagnetic Interference) filter, lightning-proof, and surge protection.
Over-voltage/under-voltage protection	Implements the power input over-voltage/under-voltage protection.
PFC module	Implements PFC (Power Factor Correction) function.
54 V module	Implements the conversion from AC voltage to 54 V DC voltage.
Over-temperature protection	Implements over-temperature protection, protecting the card from high temperature.
3.4 V module	Implements 3.4 V DC power output.
Current-limiting module	Implements the charge management and power-off management.

Technical Specifications

Table 2-17 lists technical specifications of the PRAM card.

Table 2-17 PRAM Technical Specifications

Item	Specification
Power consumption	13.2 W
Dimensions	197.75 mm × 25 mm × 225 mm (Height × Width × Depth)
Weight	1.346 kg

2.5 Backplane

Overview

The ZXA10 C320 uses backplane to connect the cards together.

Interfaces

The backplane provides the following interfaces:

- The interface for switching and control card
- The interface for the PON interface card or P2P interface card
- Power socket interface
- Fan socket interface

Technical Specifications

Table 2-18 lists the technical specifications of the backplane.