HUAWEI eKit

# Huawei PDC240S12-CN

## 240W DC Power Module Datasheet

66 mm Width Case | Fanless Design | Natural Heat Dissipation | Hot-Swappable

## Product Overview

The **PDC240S12-CN** is a 240 W DC power module in a 66 mm wide compact case designed without fans, cooled entirely by natural heat dissipation. It accepts a -48 V DC to -60 V DC (or +48 V DC) input and delivers a rated output voltage of 12 V. It delivers 20 A (240 W) output from -25°C to +55°C, and a derated output of 15 A (180 W) between 55°C and 65°C. In redundant power supply configurations, modules can be hot-swapped without interrupting device operation.

## Product Highlights

- **240 W rated output power:** 12 V / 20 A output (-25°C to +55°C); derated to 180 W / 15 A (55°C to 65°C)
- **Wide DC Input Range:** Rated -48 V DC to -60 V DC / +48 V DC (Operating range: -38.4 V to -72 V DC / +40 V to +57 V DC)
- **Maximum Input Current:** 8 A (single input)
- **Silent & Reliable:** Fanless design with natural heat dissipation
- **Hot Swappable:** Supported in redundant power supply architectures
- **Full Protection Suite:** Input undervoltage / overvoltage / overcurrent (latched); output current limiting, overvoltage, short-circuit, and overtemperature protection with automatic recovery
- **Compact Form Factor:** 39.6 × 66.0 × 215.0 mm (H × W × D), lightweight at 0.61 kg

## Usage Notes

- When entering overtemperature protection, lower ambient temperature to allow automatic output resumption.
- Input overcurrent protection is **latched**; manual intervention or power cycle is required after clearing the fault.

## Product Specifications - Basic Information

| Item | Value |
|---|---|
| **Model** | PDC240S12-CN |
| **Part Number** | 02314VUJ |
| **Description** | 240W DC Power Module (66 mm Width case, No Fans) |

Source: Huawei Hardware Description, section "PDC240S12-CN (240W DC Power Module (66 mm Width case, No Fans))". The information in this document is subject to change without notice. Huawei and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

## Technical Specifications

| Item | Specification |
|---|---|
| **Dimensions (H × W × D)** | 39.6 mm × 66.0 mm × 215.0 mm (1.56 in. × 2.60 in. × 8.46 in.) |
| **Weight without packaging** | 0.61 kg (1.34 lb) |
| **Number of Inputs** | 1 |
| **Rated Input Voltage** | -48 V DC to -60 V DC / +48 V DC |
| **Input Voltage Range** | -38.4 V DC to -72 V DC / +40 V DC to +57 V DC |
| **Maximum Input Current** | 8 A |
| **Rated Output Voltage** | 12 V DC |
| **Rated Output Current** | -25°C to +55°C: 20 A \| 55°C to 65°C: 15 A |
| **Rated Output Power** | -25°C to +55°C: 240 W \| 55°C to 65°C: 180 W |
| **Heat Dissipation Mode** | Natural heat dissipation (Fanless) |
| **Hot Swapping** | Supported |

## Indicators

| Silkscreen | Name | Color / Status | Description |
|---|---|---|---|
| **STAT** | Power Status Indicator | Green (Steady) | The power module is working properly. |
| **STAT** | Power Status Indicator | Green (Blinking) | Online loading. |
| **STAT** | Power Status Indicator | Off | Abnormal input (no input, overvoltage, or undervoltage) or abnormal output (overcurrent, overvoltage, short-circuit, or undervoltage). |

## Functions and Features

| Function / Feature | Description |
|---|---|
| **Input Undervoltage / Overvoltage** | Stops output and automatically restores power supply after input voltage returns to normal. |
| **Input Overcurrent** | Stops output and does not automatically restore (latched protection). |
| **Output Current Limiting** | Intermittent output current protection; automatically restores when current returns to normal range. |
| **Output Overvoltage & Short-Circuit** | Intermittent output shutdown; automatically resumes normal operation once fault is cleared. |
| **Overtemperature Protection** | Stops power supply when temperature exceeds threshold; resumes automatically upon cooling down. |
| **Hot Swapping** | Allows module insertion or removal in redundant power configurations without interrupting system operation. |