# Cisco AIR-PWRADPT-RGD2 Power Adapter Datasheet

**First Published:** 2024-07-02

## Overview

This document provides the specifications of the Cisco AIR-PWRADPT-RGD2= Power Adapter.

**Note** This power adapter is an OV (overvoltage) category II device per the NEC. For proper installation and requirements for branch circuit protection, isolation and surge protection when connected to an OV (overvoltage) category III or IV power source, please refer to national and local codes (for example, in the USA: NFPA 70, National Electric Code, and in Canada: Canadian Electrical Code)

### In The Package

- One AC/DC power adapter with round connector and 3-pin IEC connector attached.

## Technical Specifications

| | | |
|---|---|---|
| Output | DC Voltage[1] | 48 V |
| | Rated Current | 1.25 A |
| | Current Range | 0 ~ 1.25 A |
| | Rated Power (Max) | 60 W |
| | Ripple and Noise (Max)[2] | 240mVp-p |
| | Voltage Tolerance[3] | ±3.5% |
| | Line Regulation[4] | ±1.0% |
| | Load Regulation | ±2.5% |
| | Setup, Rise Time[5] | 600ms, 30ms / 230 VAC<br>600ms, 30ms / 115 VAC at full load |
| | Hold Up Time (Typ.) | 50ms / 230 VAC<br>15ms / 115 VAC at full load |

| | | |
|---|---|---|
| Input | Voltage Range[6] | 90 ~ 264 VAC<br>135 ~ 370 VDC |
| | Frequency Range | 47 ~ 63 Hz |
| | Efficiency (Typ.) | 92% |
| | AC Current | 1A / 230 VAC<br>1.4A / 115 VAC |
| | Inrush Current (Max.) | 65 A / 230 VAC |
| | Leakage Current (Max.) | 0.75 mA / 240 VAC |
| Protection | Overload | 105 ~ 150% rated output power<br>Protection type—Hiccup mode, recovers automatically after fault condition is removed |
| | Over Voltage | 50.4 ~ 64.8 V<br>Protection type—Shut down o/p voltage, re-power on to recover |
| | Over Temperature | RTH2 > 80℃<br>RTH2 > 176℉<br>Protection type—Shut down o/p voltage, re-power on to recover |
| Environment | Working Temp | -30 ~ + 60℃<br>-22℉ ~ 140℉<br>(Refer to output load derating curve) |
| | Working Humidity | 20% - 90% RH non-condensing |
| | Intrusion Protection | IP67 |
| | Storage Temp., Humidity | -30 ~ + 85℃, 10 ~95% RH<br>-22℉ ~ 185℉, 10 ~95% RH |
| | Temp. Coefficient | ±0.03% / ℃ (0 ~ 50 ℃) |
| | Vibration | 10 ~ 500 Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axis |

| | | |
|---|---|---|
| Safety and EMC | Withstand Voltage | I/P-O/P:3 KVAC, I/P-FG:2.0 KVAC, O/P-FG:0.5 KVAC |
| | Isolation Resistance | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500 VDC / 25℃/ 70% RH |
| | EMI Conduction and Radiation | EN55032 class B, FCC PART 15 / CISPR22 class B, CNS13438 class B, GB9254 class B |
| | Harmonic Current | Compliance to EN61000-3-2,3, GB17625.1 |
| | EMS Immunity | Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A |
| Other | MTBF | 555K Hours min. MIL-HDBK-217F(25℃) |

1 DC voltage: The output voltage set at point measure by plug terminal & 50% load.
2 Ripple & noise are measured at 20 MHz by using a 12" twisted pair terminated with a 0.1μF & 47μF capacitor.
3 Tolerance: includes set up tolerance, line regulation, load regulation.
4 Line regulation is measured from low line to high line at rated load.
5 Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
6 Maximum input voltage is 305 VAC.

# Mechanical Specifications

All measurements in the following figure are in mm.

***Figure 1: AIR-PWRADPT-RGD2 Dimensions (Top View)***

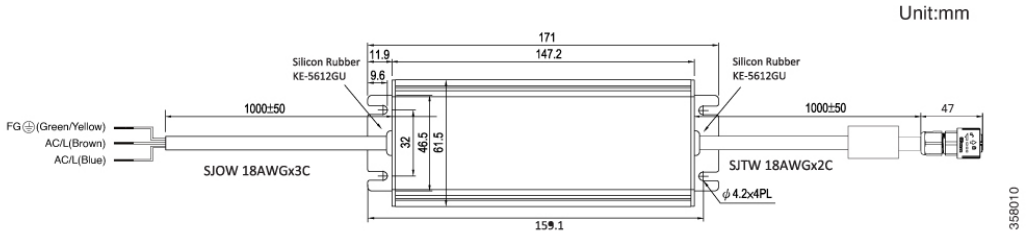


***Figure 2: AIR-PWRADPT-RGD2 Dimensions (Side View)***

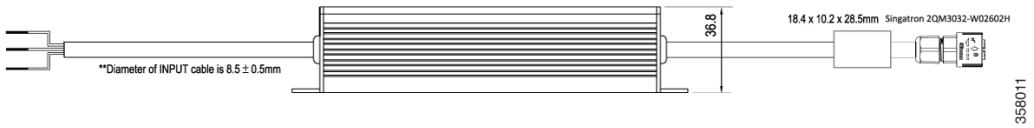

*Figure 3: Pin Assignment in the Round Connector*

| Pin No. | Assignment |
|---|---|
| 1 | +V |
| 2 | -V |

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# Power Supply De-Rating Statistics

This section provides graphical representation of Cisco Aironet AIR-PWRADPT-RGD2= power adapter's load variation based on temperature and input voltage.

*Figure 4: De-rating Curve*

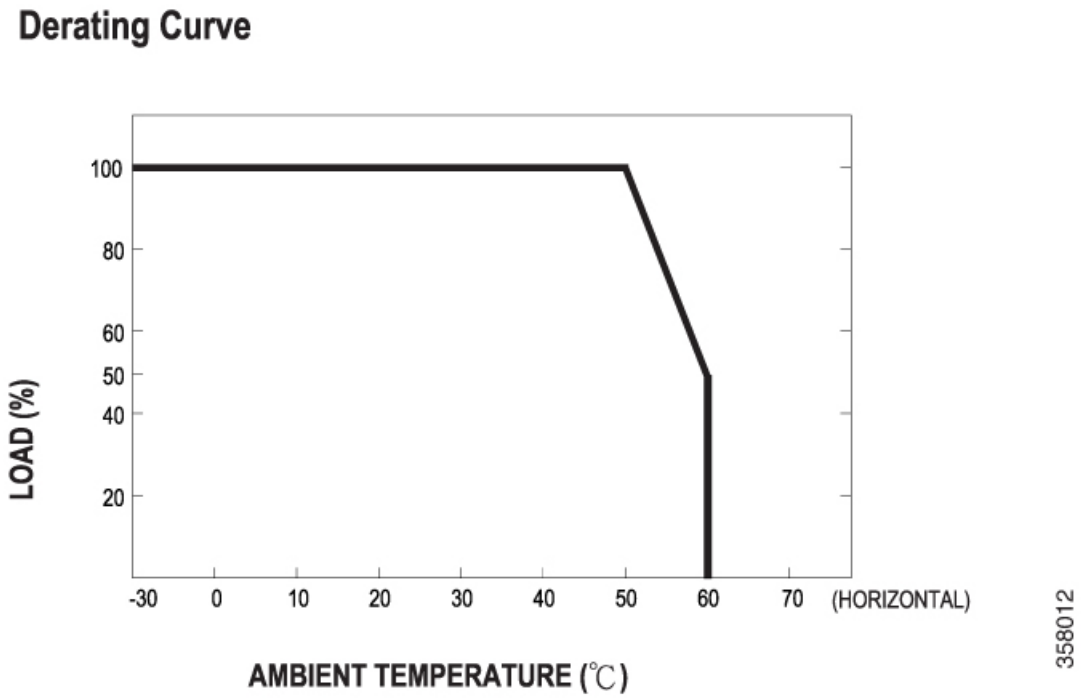
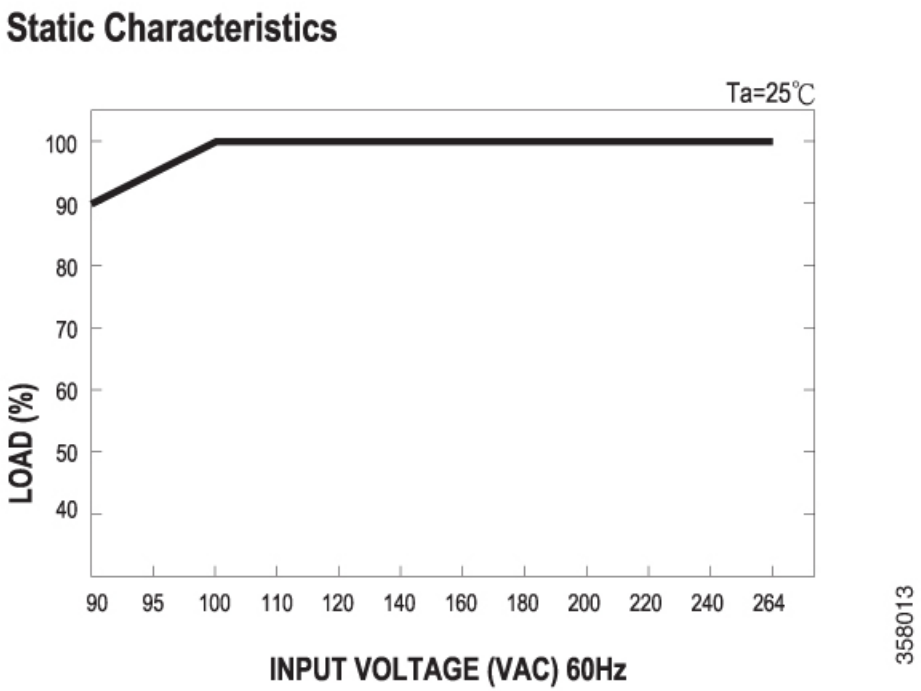


*Figure 5: Static Characteristics*

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