

PWR-190-AC/DC, PWR-2190-AC/DC Quick Installation Guide

AC/DC Power Module

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Introduction

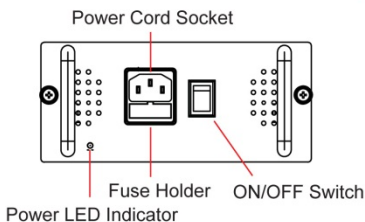
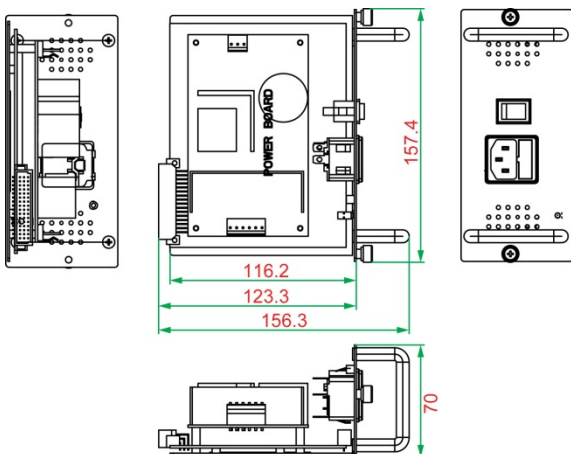
The PWR-190-AC/DC and PWR-2190-AC/DC power modules are designed for the NRack Systems' TRC-190/2190 chassis. They transform the AC power input into a steady 12 VDC, or DC power input from 36 to 53 VDC to a steady 12 VDC output to power the slide-in modules for the PWR-190/2190-AC.

Package Checklist

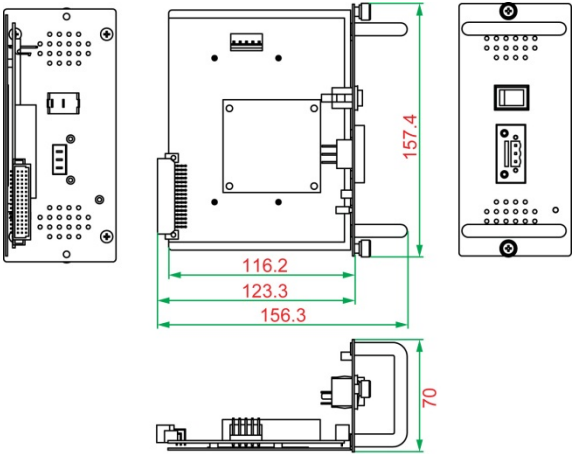
- PWR-190/2190-AC x 1 or PWR-190/2190-DC x 1
- Power cord for PWR-190/2190-AC
- Quick installation guide (printed)
- Warranty card

Dimensions (unit = mm)

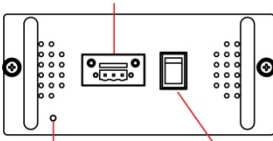
PWR-190/2190-AC



PWR-190/2190-DC



DC Power Terminal Block



Power LED Indicator

ON/OFF Switch

Powering the AC/DC Power Supply Module



ATTENTION

Ensure before connecting to the external power source, the ON/OFF switch must be set to "O". Failure to observe this caution could result in damage to, and subsequent failure of, the power supply module and human life.

Follow the instructions below to power on the power supply modules.

PWR-190/2190-AC

1. Set the ON/OFF switch to "O".
2. Connect the female end of the power cord to the AC power connector on the power supply module.
3. Plug the male end on the power cord into the correct voltage AC rack or wall socket.
4. Set the ON/OFF switch to "I".
5. Check whether the power LED is illuminated or not to see if the power supply module is working.

PWR-190/2190-DC

1. Set the ON/OFF switch to "O".
2. Be sure that the external power source is **NOT** powered.
3. Connect the power cord and the shielding ground to the male terminal block.
4. Link the male and female terminal blocks.
5. Tighten the screws (clockwise) to secure the male and female terminals.
6. Power up the external power source.
7. Set the ON/OFF switch to "I".
8. Check whether or not the power LED is illuminated to see if the power supply module is working.

Power Supply Module Installation



ATTENTION

Do not connect the power supply module to the external power source before install it into the chassis. Failure to observe this may cause equipment damage, personal injury, or even death.

1. Install the AC power supply module and DC power supply module the same way. The default power supply module will be in power module Slot A. You can install an additional power supply module in Slot B. Install or remove the power supply module from Slot A or Slot B in the same manner.
2. Whether installing a power supply module in Slot A or Slot B, be sure to remove the plate from the slot first. To remove the plate, remove the 2 screws that secure the plate to the chassis.



3. After removing the plate from the chassis, slowly slide the power supply module into the chassis. Push the power supply module into the chassis to ensure that it is all the way inside and firmly connected to the chassis.

PWR-190/2190-AC



PWR-190/2190-DC



4. Screw the power supply module clockwise to secure the power supply module in place.
5. Connect the power supply module to the external power source.

Power Supply Module Replacement

Replace the AC power supply module and DC power supply module the same way. Do not remove the power supply module from the chassis when the power source is connected and the external power switch is set to "O". When the chassis is equipped with 2 power supply modules, any one of them can be hot swapped without stopping the other one.

1. Set the power supply module power switch to "O".
2. Disconnect the power supply module from the external power source.
3. Loosen the two screws on the power supply module.
4. Smoothly slide out the power supply module.
5. Install another new power supply module following the instructions in the previous section.

Replacing the Power Supply

Fuses(PWR-190/2190-AC module only)

You do not need to remove the power supply module from the chassis in order to replace the fuse in the module.



ATTENTION

Wear a grounding device and observe electrostatic discharge precautions when replacing the fuse in the power supply module. Failure to observe this caution could result in damage to, and subsequent failure of, the power supply module.

Follow the instructions below to change the fuse if needed.

1. Set the power switch on the power supply module to "O".
2. Disconnect the power supply module from the external power source.
3. From the inside edge of the power connector, insert a flat blade screwdriver into the groove at the front. Gently pry the fuse holder out of the power connector.
4. Remove the fuse from the holder carefully.
5. The replacement fuse must be the same size and rating as the original. Installing a fuse of a different size or rating may damage your power module or even the entire system.
6. Plug the fuse holder back into its original location.
7. Connect the power supply module to the external power source.



ATTENTION

Do not connect the power supply module to the external power source before installing it in the chassis. Failure to observe this may cause the equipment damage, personal injury, or even death.

Specifications

Physical Characteristics

Case	SECC (1.2 mm)
Dimensions	157.4 x 123.3 x 70 mm (18.6 x 11 x 3.3 in.)
Gross Weight	0.5 kg or 1.1 lbs

Environment

Operating Temperature	0 to 60°C (32 to 140°F)
Operating Humidity	5% to 95% RH
Storage Temperature	-40 to 85°C (-40 to 185°F)

Power Requirement

Input Voltage	Universal 100 to 240 VAC 47-63 Hz or 48 VDC
Max. Power Output	5.4 A @ 12 VDC

Regulatory Approvals

CE	Class B
FCC	Part 15 Subpart B Class A
EMI	EN55022 1998, Class B
EMS	EN61000-4-2 (ESD), Criteria A, Level 4
	EN61000-4-3 (RS), Criteria A, Level 2
	EN61000-4-4 (EFT), Criteria A, Level 3
	EN61000-4-5 (Surge), Criteria A, Level 3
	EN61000-4-6 (CS), Criteria A, Level 2
	EN61000-4-8 (PFMF), Criteria A, Level 3