



Key Features

- Delivers DC Power up to 20 independent Devices
- The 120 W total Output Power
- Separate ON/OFF Switch for each module
- The ON/OFF Indicators for each module in Front and Back Panels
- Redundant Power configuration of Power Supplies
- Modular design
- Wide working frequency range for modules
- Inputs have high and Transient Voltage protection
- High current protection for chassis and modules
- Modules up to 1800 MHz is available

The **CommDev's RPS-220** the series of Redundant Power Supplies provide DC power up to 20 independent devices such as LNBs, DC powered amplifiers, active splitters and combiners. Device occupies only 2RU height if standard 19" rack.

The unit combines two separate Power Supplies connected in load sharing configuration and 20 pcs modular inserters working in different frequency range and different configuration.

Chassis:

Parameter	Units	Specifications
AC Power Input	VAC/Hz	90-240/50-60
Total Power, max 25°C	W	120
Power Consumption, max No Load	W	5
Hot swappable Modular Power Supplies		Yes
Number of Modular Inserters		20
Visual Alarm, LED		Green –Normal Dark-Failed Alarm -Red
Over Current Alarm		Alarm LED Blinking
Dimensions	Inch/mm	19"x3.5"x14"/483x89x356
Weight	lb/kg	15.5/7.04

The redundant configuration of Power Supplies in **RPS-220** based on MOSFET "ideal diode" instead Schottky diodes connection which is reduce requirements for heat dissipation and allocation board space.

To minimize insertion loss modules designed for different frequency working bands:

1. 5 - 1218 MHz
2. 950 - 2150 MHz.

To control RF Input Signal Level, each module has Test Port or integrated 2-way Splitter for low signal level sources.

The different types of modules for CATV applications shown in Table 1 and Table 2.

PIM-CB2W (with 2-way Splitter)
Table 1

<i>Parameter</i>	<i>Units</i>	<i>Specifications</i>
Operating Frequency	MHz	5 - 1218
Impedance	Ohm	75
Connectors		F-type
Number of Input		1
Number of Outputs		2
Return Loss all Ports, min	dB	20
Insertion Loss Input-Outputs, max	dB	4.2
Insertion Loss Flatness	dB	±0.5
Isolation Between Outputs, min	dB	30
Output Voltage	VDC	5 - 20 *
Output Current per "Input" connector, max	mA	600
Over Current Protection Inserter		Yes
Transient Voltage Protection		Yes

PIM-CBDC (with Directional Coupler)
Table 2

<i>Parameter</i>	<i>Units</i>	<i>Specifications</i>
Operating Frequency	MHz	5 - 1218
Impedance	Ohm	75
Connectors		F-type
Number of Input		1
Number of Outputs		1
Number of Test Ports		1
Return Loss all Ports, min	dB	20
Insertion Loss Input-Outputs, max	dB	1.5
Insertion Loss Flatness	dB	±0.5
Attenuation on Test Port	dB	20±0.5
LNB Voltage	VDC	5 – 20 *
Output Current per "Input" connector, max	mA	600
Over Current Protection Inserter		Yes
Transient Voltage Protection		Yes

*) According Customers request

The different types of modules for L-Band applications shown in Table 3 and Table 4.

PIM-LB2W (L-Band with 2-way Splitter)
Table 3

<i>Parameter</i>	<i>Units</i>	<i>Specifications</i>
Operating Frequency	MHz	950 - 2150
Impedance	Ohm	75
Connectors		F-type
Number of Input		1
Number of Outputs		2
Return Loss In/Out, min	dB	18
Insertion Loss Input-Outputs, max	dB	4.2
Insertion Loss Flatness	dB	±0.5
Isolation Between Outputs, min	dB	22
LNB Voltage	VDC	18 *
Output Current per "Input" connector, max	mA	600
Over Current Protection Inserter		Yes
Transient Voltage Protection		Yes

PIM-LBDC (L-Band with Directional Coupler)
Table 4

<i>Parameter</i>	<i>Units</i>	<i>Specifications</i>
Operating Frequency	MHz	950 - 2150
Impedance	Ohm	75
Connectors		F-type
Number of Input		1
Number of Outputs		1
Number of Test Ports		1
Return Loss In/Out, min	dB	18
Insertion Loss Input-Outputs, max	dB	1.5
Insertion Loss Flatness	dB	±0.5
Attenuation on Test Port	dB	20±1.0
LNB Voltage	VDC	18 *
Output Current per "Input" connector, max	mA	600
Over Current Protection Inserter		Yes
Transient Voltage Protection		Yes

* According Customers request