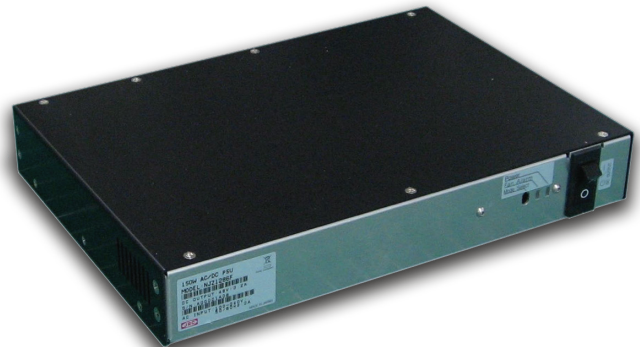


NEW JAPAN RADIO CO. LTD



Scope

This Power Supply Unit(PSU) is intended for the satellite communication data uplink application in C-band and Ku-band.

The features of the PSU are to provide the stable +48V DC power to operate both C-band 10W and Ku-band 8W BUCs, even if the inner power supply of the modem is not capable enough to operate these BUCs.

The PSU, which is having enough power supply of 150W as well as having the bias-tee which enable to pass 10MHz reference signal and IF signal from the modem, is operated by AC Power and enable to operate these BUCs.

In addition the PSU complies with UL CERTIFICATION and EC DIRECTIVE and this housing can fit the 1U rack mount with optional kit.

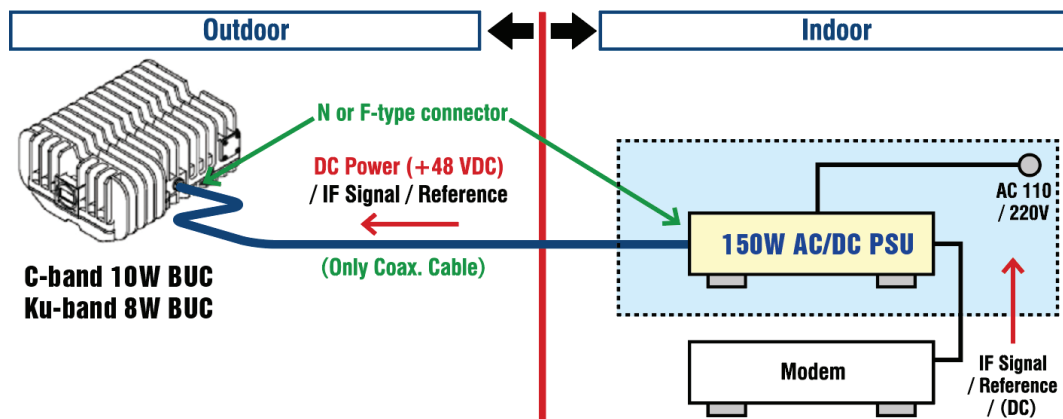


Fig.1 Connection Block Diagram

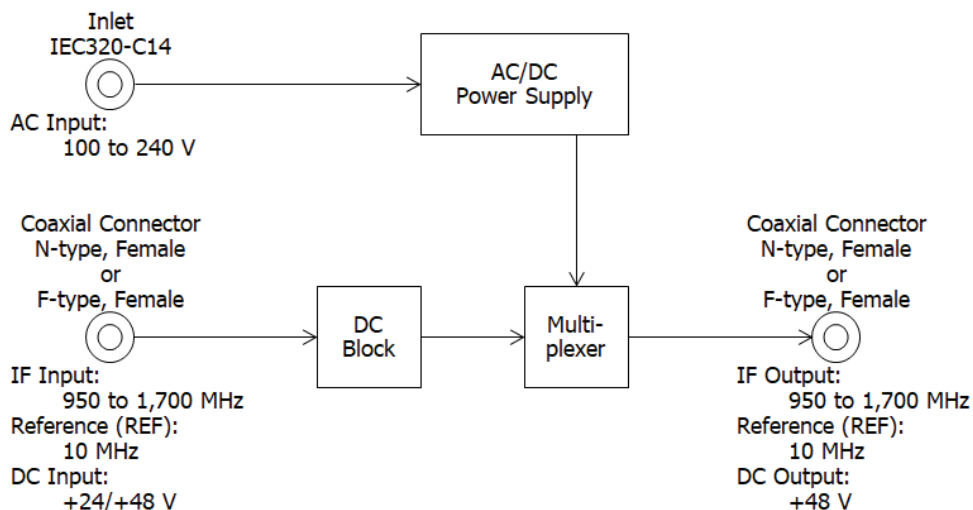
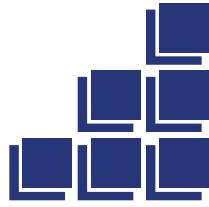


Fig.2 Functional Block Diagram



The features are

- Indoor power supply unit with up to 150 W and +48 V DC power output.
- Available regardless of Any Types of Modem.
- DC power output can be turned on/off by mechanical switch on the front panel.
- The mode of DC power output can be selected out of in the following mode options by DIP switch on the front panel.
 - Option 1: To keep supplying DC power regardless of modem output status
 - Option 2: To control power DC output on/off by synchronization of input DC voltage on/off from modem
- Directly connect the coaxial cable for IF signal, 10 MHz reference and DC power from modem.
- One Coaxial Cable Solution.
- Compatible with 1U rack-mount (Rack-mount option).

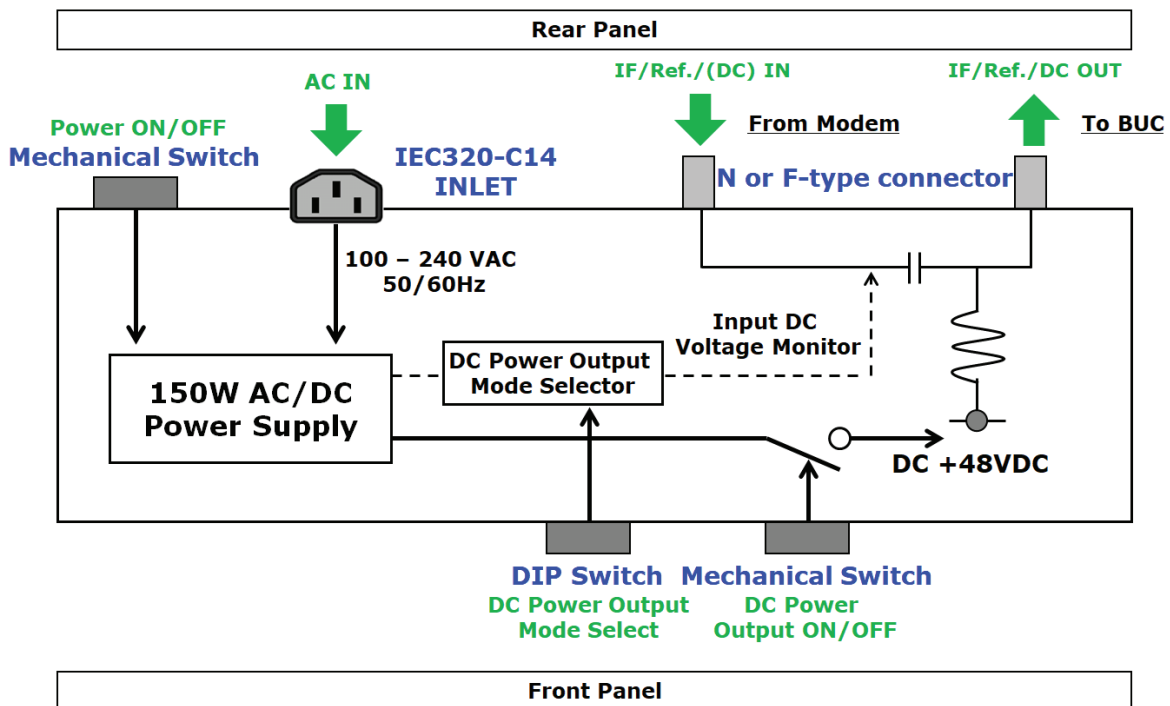
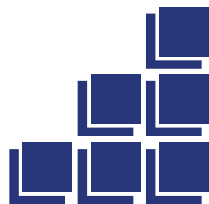


Fig.3 Interface Diagram



Series Model Number

- Numbering System

N J Z 1 2 8 6 N

IF Interface Connector

F: F-type (75 ohms), Female Connector

N: N-type (50 ohms), Female Connector

Product Series Number

- Line-up

Model No.	IF Frequency	IF Connector
NJZ1286N	950 to 1,700 MHz	N-type
NJZ1286F		F-type

1. Electrical Specifications

#	Items	Specifications
1.1.	Input AC Voltage Range [Rated Range] [Absolute Maximum Rating]	100 to 240 VAC 90 to 264 VAC
1.2.	Input AC Frequency Range	50/60 Hz
1.3.	Maximum Input AC Apparent Power	200 VA
1.4.	Output Voltage	+48 VDC
1.5.	Output Voltage Accuracy	+/- 10 %
1.6.	Output Current Range	0 to 3.2 A
1.7.	Maximum Output Power	150 W
1.8.	Standby Mode Power <Condition> No Connect BUC No Output DC Power	10 W max.
1.9.	Efficiency	80 % typ. at 120 VAC, full load
1.10.	Power Factor	0.98 typ. at 120 VAC, full load
1.11.	Output ON/OFF Control	a) Rocker Switch on the Front Panel b) Mode of DC Power Output Option 1: To keep supplying Option 2: Synchronization with input DC voltage on/off
1.12.	IF Frequency Range	950 to 1,700 MHz
1.13.	IF Input/ Output Impedance <N-type Model> <F-type Model>	50 ohms nom 75 ohms nom.
1.14.	IF Input/ Output VSWR	2 : 1 max.
1.15.	IF Insertion Loss	1.5 dB max.
1.16.	Input DC Voltage Range at IF Input Interface	+24 / +48 VDC In case of option 2 in mode of DC power output, 50mA min. is needed from modem.
1.17.	Protection	● Internal Primary Current Fuse ● Short Protection
1.18.	LED Indicator [DC Output (Power)] [Fan Alarm]	GREEN: Supply a DC Power to BUC GREEN: Normal Condition RED: Abnormal Condition and Fan must be Replaced

2. Mechanical Specifications

#	Items	Specifications
2.1.	AC Input Interface	IEC320-C14 Inlet
2.2.	IF Input Interface Connector	
	<F-type Model>	F-type Female Connector, 75 ohms
	<N-type Model>	N-type Female Connector, 50 ohms
2.3.	IF Output Interface Connector	
	<F-type Model>	F-type Female Connector, 75 ohms
	<N-type Model>	N-type Female Connector, 50 ohms
2.4.	Cooling	Forced-air-cooled by Fan
2.5.	Dimension & Housing without interface connectors and switch	290 (W) x 200 (D) x 44 (H) mm [11.42" (W) x 7.87" (D) x 1.73" (H)]
2.6.	Weight	1.6 kg [3.5 lbs]

3. Environmental Specifications

#	Items	Specifications
3.1.	Temperature Range (Ambient) [Operating] [Storage]	0 to +50 °C -30 to +85 °C
3.2.	Humidity [Operating] [Storage]	30 to 90 %Rh non-condensing 10 to 95 %Rh
3.3.	Vibration (Survival)	Non Operation 2 G [19.6 m/s ²] Constant (10 to 55 Hz, Sweep Time: 1 min., 3 axis, 1 hour)
3.4.	Shock (Survival)	20 G [196.1 m/s ²] (3 axis)
3.5.	Regulations	EU Directive (CE Marking) EMC - 2014/30/EU Low Voltage - 2014/35/EU RoHS - 2011/65/EU + (EU)2015/863 UL Citification
3.6.	Compliance Standard	EN 55022 EN 55024 EN 61000-3-2/3 EN 60950-1 / UL60950-1 EN 62311
3.7.	MTBF (by Method of Parts Count Reliability Prediction)	150,000 hours and more at +50 °C as Design Condition

* Above specifications are subject to change without notice.