

FEATURES

- Designed for CommScope RFoG and RFPON R-ONU solutions
- CSHMPIE high isolation 1.8 GHz power inserter
- AC/DC wall adapters
 - PS1921W-10 SMPS with universal AC input voltage and connectors for NEMA-USA, EU, and UK applications. Meets international and United States DOE Class VI efficiency specification
 - PS1911W (120 VAC NEMA/US 1-15P) (May not meet local efficiency regulations, thus limiting use in certain countries.)
 - All models above feature type “F” female DC output connectors
- Uninterruptible Power Supply
 - Up to 20 hours of standard operation
 - 120 or 230 VAC input
 - Type “F” female DC output connector
- High reliability for long-term service

Most CommScope RFoG Optical Network Unit (R-ONU) devices require external power for operation. Separately sold powering solutions include compact low-cost high reliability wall-mounted AC-to-DC adapters with 12 VDC or 15 VDC outputs and standard female "F" type connectors having nominal AC input voltages of 120 or 100 to 240 Volts AC. Input mains connectors fit NEMA-USA, EU, and UK style connectors common to various worldwide geographical regions. NEMA-USA mains plugs offer a wall plate mounting lug that ensures a secure installation. The required power supply depends on the R-ONU device being powered.

A battery back-up Uninterruptible Power Supply (UPS) supporting 100 to 240 VAC input range is also available, for continuous operation during AC power failures. The PS1801B-00 battery for the PS1811U-01 UPS is sold separately. All power supplies feature “F” type female DC connectors for compatibility with the R-ONU connectors.



PS1921W-10



PS1911



CSHMPIE Power Inserter (1.8 GHz)



PS1811U-01 UPS

PS1921W-10: Universal AC voltage input range (100–240 VAC)

- Multi-country mains connector types
- Meets International and USA Department of Energy (DOE) Class VI efficiency specifications
- Connects directly to the R-ONU, eliminating the PS1900-ADP DC to F-type adapter
- Supports all CommScope CP8x R-ONUs requiring external power supplies

PS1911W-00: 120 VAC with USA NEMA 1-15P AC connector and wall plate securing lug

May not meet local efficiency regulations, thus limiting use in certain countries. Operating temperature range may be less than that of the powered ONU.

- Supports CommScope standard (non-OBI-free) R-ONUs

PS1811U-01: Uninterruptable Power Supply (UPS)

- Supports all CommScope CP8x R-ONUs

CSHMPIE Power Inserter

Class-leading power inserter that provides maximum isolation between the power supply and the RF ports, preventing ingress when the R-ONU is remotely powered via the RF coax. A Power Inserter is included with standard SDU and MDU non-OBI-free R-ONUs, not including the CP8600 models which have built-in power supplies.

SPECIFICATIONS

Characteristics	Specification
PS1911W-00 AC Wall Adapter	120 V _{AC} (nominal) USA type adapter with 12 V _{DC} output on "F" connector
AC Input Voltage	108–132 V _{AC} , 60 Hz
AC Input Connector	NEMA 1-15P (NP)
DC Output Voltage	12 V nominal @ 500 mA
DC Output Connector	ANSI/SCTE 02:2006 type F Female
Surge Protection	1 kV min (per IEEE/ANSI C62.41)
Safety	UL 13210/CSA C22.2 No. 223-M91
Operating Temperature	-10° to +40°C (+14° to +104°F) NOTE: Operating range may be less than that of the powered ONU. Indoor mounting suggested.
Storage Temperature	-20° to +80°C (-4° to +176°F)
Humidity	5% to 95% non-condensing
Dimensions	2.3" W x 3.0" H x 2.0" D (5.8 cm x 7.6 cm x 5.0 cm)
Weight, typ	1 lb. (0.45 kg)
Efficiency	May not meet certain country regulations. Check local regulations before use.
PS1921W-10 Universal Power Supply Kit	Wall mount AC/DC adapter provided with interchangeable AC adapter plates for US, EU, and UK applications
AC Input Voltage	100–240 V _{AC} , 50/60 Hz
AC Input Connector	Three interchangeable adapters: NEMA 1-15P (NP), CEE 7/16 and BS1363 (USA, EU, and UK styles). USA adapter features a mounting lug to secure adapter to the wall outlet.
DC Output	15 V _{DC} @ 1.5 A max
DC Output Connector	ANSI/SCTE 02.2006 compliant F-type Coax Connector
Surge Protection	6 kV combination wave per IEEE/ANSI C62.41
Operating Temperature	-10° to +40°C (14° to 104°F) @ 1.5 A max output current. NOTE: Operating range may be less than that of the powered ONU. Indoor mounting suggested.
Storage Temperature	-40° to +85°C (-40° to 185°F)
Operating/Storage Humidity	5% to 95% RH, non-condensing
Dimensions	1.69" W x 3.35" H x 1.93" D (4.3 cm x 8.5 cm x 4.9 cm)
Weight	0.26 lb. (0.12 kg)
EMC	CE, BSMI, FCC, and VCCI compliant
Safety	IEC 60950-1; EN 60950-1; UL 60950-1
Efficiency	Meets International and US DOE Class VI Specifications
CSHMPIE Power Inserter	
Operating Frequency	5–1800 MHz
Insertion loss RF to RF + Power	1 dB max
Return Loss	20 dB (5 MHz to 1218 MHz)
Isolation	
5–800 MHz	75 dB min
800–1218 MHz	70 dB min
1275–1800 MHz	65 dB min
RF Shielding	105 dB min per ANSI/SCTE 48-2 2008
Operating Temperature	-40° to +65°C (-40° to +149°F)
Dimensions (L x W x H)	2.2 in x 1.57 in x 0.67 in (55.9 x 40.0 x 14.5 mm)
Weight	1.0 oz (28 g) typ
RoHS Compliant	Yes

SPECIFICATIONS

Characteristics	Specification
PS1811U-01 Uninterruptible Power Supply (UPS)	Please review the individual data sheet for complete specifications.
AC Input Voltage	100–240 V _{RMS} @ 0.5 A max, 50/60 Hz
Input Frequency	50/60 Hz
AC Input Connector	IEC 320/C6 inlet
Power Cord	IEC 320/C5 to NEMA 5-15
Output Voltage	12.0 V _{DC} nominal (battery voltage upon loss of AC)
Operational Output Power	8 W max
Output Connector	ANSI/SCTE 02.2006 compliant F-type Coax Connector
Dimensions	6.6" W x 7.75" H x 3.3" D (16.7 cm x 19.0 cm x 8.33 cm)
Weight	1.2 lb (0.54 kg); battery: 5.7 lb (2.6 kg)
Operating Temperature	-20° to +45°C (-4° to 113°F) NOTE: Operating range may be less than that of the powered ONU. Indoor mounting suggested.
Storage Temperature	-20° to +45°C (-4° to +113°F)
Humidity	5% to 95% non-condensing
Safety	UL/CSA/EN 60950-1
EMC	FCC Part 15 Class B, EN 55022, EN 55024
Environmental	CE Mark, RoHS compliant
Model Identification	Alpha FlexPoint FPR1208-F
PS1801B-00 UPS Battery (Sold separately)	12 V _{DC} Standby Battery for PS1811U-01 UPS
	7.2 AH AGM battery
	Provides approximately 10 hours of backup at 6 W (or 20 hours at 3 W) to 25% reserve point shut-off, based on new, fully-charged battery
	Hot-swappable
	Recharge time 18 hours to 90%
	Uses maintenance-free sealed-lead acid
Battery Storage	-20° to +40°C (-4° to 104°F), six months max storage duration at +25°C (+77°F) without a recharge

RELATED PRODUCTS

OR3144H, OR41x8H Diplexer/Receivers	CH3000 Chassis and NH4000 VHub RFoG modules
XE4202M Remote OLT (R-OLT)	RFoG CP8xxx ONUs

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

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Note: Specifications are subject to change without notice.

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