

# Opti Max™ Optical Node Series

## Standard and Optional Power Supply Modules for OM6000™ Nodes

### FEATURES

- Blind mate, hot swappable modules for ease of installation
- Remote monitoring of Power Supply/Power Hold Up Modules available
- Standard Power Supply Module features:
  - High-efficiency power supplies
  - Current limit, short circuit, and overvoltage protection
  - Redundant power supply module option with DC load sharing
  - User accessible test points and LED status indicators
- Power Supply Hold Up Module safeguards against RPD reboots due to short-interval network power interruptions

Standard OM6000™ power supply modules are designed for use in CommScope OM6000 nodes. A single OM6000 power supply module has sufficient capacity to support traditional HFC and Fiber Deep node configurations as well as advanced, next-generation node modules such as R-PHY. Standard OM6000 power supply modules support operation from 60/90 Vac coaxial network powering sources via a blind mate interface with the OM6000 node housing, which facilitates ease of use in the field.

The OM6000 node supports a redundant powering option that provides load sharing of the DC outputs and protection from a low impedance fault within a power supply module. Additionally, properly configuring an OM6000 node’s power distribution board fuses/shunts supports independent AC powering of redundant OM6000 power supply modules. Standard OM6000 power supply modules also support hot-swap installation and removal from the OM6000 node housing.



Standard 34 V Fiber Deep Power Supply Module



Standard 24 V HFC Power Supply Module

## OM6000 Power Hold Up Module

The OM6000 Power Hold Up Module is a hot-swappable power supply option that is designed to sustain power to the entire node during occasional short-interval network powering disruptions. The Power Hold Up Module utilizes the OM6000's second power supply location<sup>1</sup> to provide more than 500 ms<sup>2</sup> of DC power continuity during these short-interval network power disruptions which significantly reduces RPD device reboots to ensure system reliability. No special cabling, connections, or node configuration is required for installing and operating the Power Hold Up Module.

### NOTES:

1. Redundant powering not available with the use of the power hold up module.
2. Hold up time for 34 V systems.



24/34 V Power Supply Hold-up Module

## SPECIFICATIONS (24 V AND 34 V POWER SUPPLIES)

Characteristics	Specification
<b>Physical</b>	
Dimensions (L x H x W)	8.09 in x 3.69 in x 3.94 in (20.5 cm x 9.4 cm x 10.0 cm)
Weight	3.0 lb (1.4 kg)
<b>Environmental</b>	
Operating Temperature Range	-40° to +60°C (-40° to +140°F)
Storage Temperature Range	-40° to +85°C (-40° to +185°F)
Humidity	5% to 95% non-condensing
<b>Electrical</b>	
AC Input <sup>1</sup>	AC Input <sup>1</sup>
AC Start-up Voltage	AC Start-up Voltage
Cut-off Voltage	Cut-off Voltage
<b>LEDs</b>	
Output Voltage Status LED Indicators	24/34 V On: DC output voltage is present 24/34 V Off: DC output voltage is not present, or the power supply is not receiving AC voltage 5 V On: DC output voltage is present 5 V Off: DC output voltage is not present, or the power supply is not receiving AC voltage

### NOTES:

1. HFC network power supply voltage waveform (ferro-resonant/quasi-square wave).

## SPECIFICATIONS (24 V/34 V POWER HOLD UP MODULE)

Characteristics	Specification
<b>Physical</b>	
Dimensions (L x H x W)	8.09 in x 3.69 in x 3.94 in (20.5 cm x 9.4 cm x 10.0 cm)
Weight	3.10 lb (1.41 kg)
<b>Environmental</b>	
Operating Temperature Range	-40° to +60°C (-40° to +140°F)
Storage Temperature Range	-40° to +85°C (-40° to +185°F)
Humidity	5% to 95% non-condensing
<b>Electrical</b>	
DC Input	23.4 to 34.4 V
Input Charging Time <sup>1</sup>	115 sec max
DC Hold-up Duration, 34 V Input, < 126 W DC	500 msec min
<b>LEDs</b>	
Hold-up Readiness Status LED Indicators	On: Ready Off: Not ready

**NOTE:**

1. From the application of module input power to the point where the internal storage voltage reaches 90% of nominal input voltage.

## ORDERING INFORMATION

Model Name	Description
1510056-001	OM6 24 V HFC Power Supply Module
1510056-002	OM6 34 V Fiber Deep Power Supply Module
OM6-PS-HOLD	OM6 24/34 V Power Hold Up Module

## RELATED PRODUCTS

OM6000 HFC Node	Headend Optics
OM6000 Fiber Deep Node	Digital Optics
E6000® CCAP Core	Analog Optics

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
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**Note:** Specifications are subject to change without notice.

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