

FEATURES

- Redundant, hot-swappable power supply modules
- Eliminates the need for an AC/DC converter in field installations
- Installs easily in standard rack enclosures
- Powers up to twelve AgileMax AM3200 or AM3217 1RU units
- Supports HFC hardline coaxial or power-carrying optical cable powering options
- Utilizes widely deployed, field proven OM4100™ power supply modules

The CommScope AgileMax Power Supply Chassis is designed for AgileMax 1RU deployments that have access to an HFC power source. The chassis is a standard 19-inch rack mount design that works in conjunction with a port entry module. The port entry module accepts hard line 40 to 90 VAC coax input power from the HFC node/hub or power supply and routes the power via a flexible wire pigtail output cable into the chassis' AC input port. The chassis then converts the AC input to DC power via one or two CommScope OM4100 power supply modules that are mounted in a cabling/distribution board, eliminating the need for an AC/DC converter. The chassis occupies 2RU and is secured using standard rack mounting hardware. End users can easily remove and reseal the chassis, if necessary.

The OM4100 power supply modules are redundant and hot-swappable. A single supply will provide up to twelve AgileMax 1RU AM3200 and/or AM3217 units with 24 Vdc distribution, as well as protection against 6 kV surges. Two power supplies will load share until one supply fails, and then the remaining supply will pick up the entire load.



Chassis Front View



Chassis Rear View

SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions	3.46 in H x 19 in W x 8 in D (8.79 cm x 48.26 cm x 20.32 cm)
Environmental	
Operating Temperature Range ¹	-40° to 60°C (-40° to 140°F)
Humidity	5% to 95% non-condensing
Powering	
Input Frequency	50/60 Hz
Output Voltages	24 ± 0.5 Vdc
Output Voltage Ripple	10 mVrms, all supply voltages
Output Currents @ 24.0 Vdc	
@ Nominal DC Loading	4.0 Adc
@ Maximum DC Loading	5.0 Adc
Efficiency ²	83% (typ)
Short Circuit Current @ 24.0 Vdc	8.0 Adc
Hold-up Time ³	
@ Nominal DC Loading	40 V, 20 ms (min) 90 V, 100 ms (min)
@ Maximum DC Loading	45 V, 20 ms (min) 90 V, 100 ms (min)
Start-up Voltage	38 Vrms (typ)
Cutoff Voltage	34 Vrms (typ)

NOTES:

1. The operating temperature represents the outside ambient temperature of the pedestal or cabinet in which power supply is installed. (Housing Ambient Temp.)
2. Measured with a minimum of four AM3200 or two AM3217 units installed. Efficiency may be reduced when powering fewer AgileMax units.
3. Operation of power supply at maximum DC Loading under 45 V_{AC} input voltage will decrease holdup time.

ORDERING INFORMATION

Model Name	Description
AM-PSDC-OM4100	2RU power supply chassis with two OM4100 power supplies and power entry module for DC powered AgileMax

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