



# AMP28

Power Supply Unit  
for Block-Up Converter

Agilis AMP28 and APS Series Power Supply Unit (PSU) is high reliability standard switching power supply for Agilis Block-Up Converter (BUC).

The AMP28 series PSU is a high quality AC to DC switching power supply with multiplexer to provide a common IFL input to the BUC. The built-in Bias-T blocks incoming DC and multiplexes DC with IF, Reference and FSK M&C signals. This PSU series comes in 3 ranges of power rating with a maximum power rating of 400W. The AMP28 series is available in both indoor and outdoor package.

Our PSU are designed to exceed the rigorous quality and performance requirements of today's leading-edge communications solution.

## Features

- Compact power supplies for all Agilis BUCs
- Multiplex DC with IF, Reference and FSK M&C signals
- Available in both indoor and outdoor solution
- Wide AC input range (115VAC to 230VAC)
- Complies with EMI/EMC standard
- Wide operating temperature range -40°C to +60°C for outdoor PSU
- Extremely reliable
- High power efficiency
- Low ripple output voltage
- Waterproof with IP65 standard for outdoor PSU
- LED indicator for PSU status
- Option to monitor the optic signal status (ON /OFF)

## Reliability

Field proven under harsh environment conditions, Agilis indoor power supplies can withstand temperature ranging from -10°C to +50°C while Agilis outdoor power supplies can withstand temperature ranging from -40°C to +60°C with up to 100% humidity.

## Quality Assurance

All Agilis indoor and outdoor PSUs go through intensive active electrical stress screening with performance being monitored during screening. In addition, all outdoor PSU units undergo 100% waterproof test equivalent to IP65 to ensure normal operation in tropical, cold and harsh environments.

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## Technical Specifications

### DC Specifications

<b>Output Voltage</b>	48V DC typ
<b>Output Power</b>	120W (for AMP2801-120 and AMP2801-120-DM) 350W (for AMP2801-300 and AMP2801-300-DM) 400W (for AMP2801-400-DM)
<b>AC mains input Voltage</b>	110 to 230V AC
<b>AC mains input Frequency</b>	47 to 63Hz
<b>AC mains input connector</b>	ITT KPT02E12-3P (for Outdoor) 3 core power cable open end (for Indoor)
<b>DC mains output connector</b>	F-type Female N-type Female for Outdoor
<b>Protection</b>	Overcurrent / Overvoltage

### Multiplexer Specifications

<b>IF input voltage blocking</b>	
<b>IF path through loss over 950 to 1825MHz</b>	1dB max
<b>IF path loss at 10MHz</b>	1dB max
<b>IF path gain flatness from 950 to 1825MHz</b>	2dB max
<b>IF path gain flatness 40MHz</b>	1dB max
<b>IF path impedance</b>	50Ohms
<b>IF path VSWR</b>	1.5:1

### Environmental Specifications

<b>Operating Temperature</b>	-40°C to + 60°C (for Outdoor PSU) 0°C to + 50°C (for Indoor PSU)
<b>Relative Humidity</b>	up to 100% (for Outdoor PSU)

### Mechanical Specifications

<b>Dimensions</b>	190L x 189W x 107H mm (for Outdoor PSU) 295L x 140W x 57H mm (for Indoor PSU)
<b>Weight</b>	3kg (for Outdoor PSU) 1.7kg (for Indoor PSU)
<b>Colour</b>	White Powder Coat (for Outdoor PSU) Grey (for Indoor PSU)

### Power Supply Selection Table

Frequency	Power	Indoor	Outdoor
C	10W	AMP2801-120-DM	AMP2801-120
	20W to 25W	AMP2801-300-DM	AMP2801-300
	40W to 60W	AMP2801-400-DM	AMP2801-300
Ku	8W	AMP2801-120-DM	AMP2801-120
	16W to 25W	AMP2801-300-DM	AMP2801-300
	40W	AMP2801-400-DM	AMP2801-300

Note: All specifications are subject to change without notice.  
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