

Universal AC to DC Power Supply

Features / Benefits

Universal 100-240V_{AC}, 50-60 Hz, AC-to-DC, 18 Watt power supplies.

North American plug style.

Available in 12V/1.5A and 18V/1Amp ratings.

Standard 2.1mm/5.5mm DC power plug for most Olson DC-powered products.

High efficiency power supply with 60kHz switching frequency.

Very low standby power, < 0.3W.

Full load efficiency typically greater than 80%.

Indoor use only.

1.8 meter DC power cord



18-Watt Power Supply Style

The Olson Technology, Inc. OTPS universal AC-to-DC power supply series is an economical and reliable means of powering many Olson products. It provides 18 Watts of DC output power in a compact package. It is intended for indoor use only. It provides overload protection, over-voltage protection and short-circuit protection. It is intended for indoor applications only. Olson offers 12V/1.5A version and 18V/1A versions. An optional PIC (Power Inserter Coup-ling) is available to power via an "F" connector.

Approvals include RoHS, UL, CE, FCC and the EMC requirements of FCC part 15.



Optional Power Inserter



Optional "F" Connector Adapter

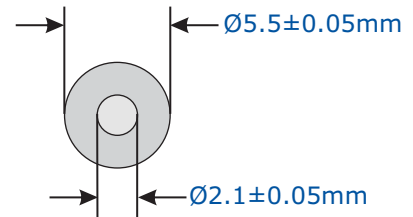
System Specifications

Electrical and Environmental Characteristics

	Min	Typ	Max	Units
Power Supply Voltage	+100		+240	V _{AC}
Power Supply Frequency	50		60	Hz
Output Voltage (OTPS-12A)	11.4	12.0	12.6	V
Output Current (OTPS-12A)	0		1.5	A
Output Voltage (OTPS-18A)	17.1	18.0	18.9	V
Output Current (OTPS-18A)	0		1.0	A
Efficiency	70	80		%
Standby Power Consumption (1)		0.1	0.3	W
Ripple & Noise			120	mV _{pp}
Internal AC Fuse (2)			1.6	A
Operating Temp. Range	-5		+40	°C
Storage Temp. Range	-40		+70	°C
Humidity (RH Non Con.)	30		55	%



DC Power Connector Tip



Note: The DC power connector tip is 10mm long.

Physical Characteristics

	Min	Typ	Max	Units
Weight		4.3		oz.
		122		g
Dimensions -12 Watt (W x H x D)	1.83 x 2.93 x 1.18			in.
	47 x 75 x 30			mm
Dimensions -18 Watt (W x H x D)	1.7 x 3.0 x 1.2			in.
	43 x 76 x 30			mm

NOTES:

- 1) At 240 V_{AC}
- 2) The fuse cannot be replaced by user. The fuse only blows in the event of a power supply failure. A short circuit on the DC output will not blow the fuse.

DC Power Connector Polarity



Ordering Information

OTPS-12A	Universal AC, 12 Volt, 1.5 Amp, 2.1mm/5.5mm DC plug
OTPS-12A-F	Universal AC, 12 Volt, 1.5 Amp, 2.1mm/5.5mm DC plug & "F" Connector Adapter **
OTPS-12A-4P	Universal AC, 12 Volt, 1.5 Amp, 4-Pin Phoenix Connector
OTPS-12A-4W	Universal AC, 12 Volt, 1.5 Amp, 4-Pin Weidmuller Connector
OTPS-12A-PIC	Universal AC, 12 Volt, 1.5 Amp, 2.1mm/5.5mm DC plug with PIC *
OTPS-12A-2B	Universal AC, 12 Volt, 1.5 Amp, Stripped and tinned leads
OTPS-12A-10M	Universal AC, 12 Volt, 1.5 Amp, 10-Pin Molex + Stripped and tinned signal leads
OTPS-18A	Universal AC, 18 Volt, 1.0 Amp, 2.1mm/5.5mm DC plug
OTPS-18A-F	Universal AC, 18 Volt, 1.0 Amp, 2.1mm/5.5mm DC plug & "F" Connector Adapter **
OTPS-18A-PIC	Universal AC, 18 Volt, 1.0 Amp, 2.1mm/5.5mm DC plug with PIC *

- Notes:**
- * **PIC** denotes the **P**ower **I**nserting **C**oupling. It adapts the power supply to power devices "up the coax" via an "F" connector when RF signals are on the same cable.
 - ** The "-F" option means that the power supply will be shipped with a 2.1mm/5.5mm DC plug along with a 2.1mm to "F" connector adapter.
 - *** All Olson products produced after July 2009 utilize one of the power supply options listed above. Some older Olson products use 2.5mm/5.5mm DC plugs. Contact the factory for these special items.