COMM SERIES

Communications Power Supplies in 12, 24 and 48VDC Output

When you need clean reliable DC power for your communications needs, look to the industry leader in switchmode power supplies for peace of mind. Since 1986 ICT has been a leader in reliability, support and innovation. We design, manufacture, ship and support our products locally in our North American facility. When you need high quality, field tested communications power supplies with fast reliable delivery, rely on the ICT Comm Series.

RELIABILITY

- ICT has been building highly reliable DC power products for 25 years
- Only quality name brand components are used
- Efficient design reduces number of parts and connections that can fail
- Every power supply shipped is serial number tracked
- Rugged terminal block connectors allow trouble–free wiring connections

PERFORMANCE

- High efficiency switchmode design for small size and clean output power
- Extra input and output filtering effectively removes interference
- Isolated outputs are compatible with negative or positive ground equipment
- Automatic current limiting protects power supply and connected loads
- Built–in fuse for extra protection

DEPENDABILITY

- All ICT power products are manufactured in North America
- Our deliveries are typically measured in days, not weeks
- All ICT products are supported by our in–house engineering team

FLEXIBILITY

- Wide selection from 50 to 720 watts of power
- 12, 24 and 48VDC outputs
- Desktop, rackmount, wall mount and digital meter options
- Broad selection of matching radio covers and complete base stations


50-75W desktop in 12VDC output with auxiliary DC power outlet.


100-200W models in 12, 24 and 48VDC output.


200-500W models in 12, 24 and 48VDC output.


600-720W rack mount models in 48VDC output.

Match your ICT Comm Series power supply with custom covers for popular land mobile radios to create functional, space saving base stations.

Find out more. Go to www.ict–power.com and click on FIND RADIO COVER.

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Model Selection Guide

Power Level (watts)	12VDC Output	Other 12V Case Widths	24VDC Output	48VDC Output
50–75 	ICT12012–4A ICT12012–6A			
100–200 	ICT12012–10A ICT12012–12A	ICT12012–10AG, ICT12012–10AX ICT12012–12AG, ICT12012–12AX	ICT12024–5A	ICT12048–3A
200–500 	ICT12012–15A ICT12012–20A ICT12012–30A	ICT12012–15AG, ICT12012–15AX ICT12012–20AG, ICT12012–20AX ICT12012–30AG, ICT12012–30AX	ICT12024–10A ICT12024–15A	ICT12048–5A
600–720 				ICT12048–12AR ICT12048–15AR

For power levels up to 1,500 watts, see the ICT High Power Series at www.ict–power.com

Options Guide

Description		Add Suffix	Ordering Examples
Digital Meter	Displays voltage and current (a)	M	ICT12012-10AM
Rack Mounted	Single power supply comes factory mounted on ICT-RMK1 2RU 19" rack (b)	R	ICT12024-5AR
Flexible Combinations	Options can be combined to best suit your requirements		ICT12012-10ARM
220VAC Input	Change 120 in model number to 220 to order with 220VAC input (c)		ICT22012-10A
Wallmount Bracket	Kit to turn your desktop Comm Series into a wall mount configuration		ICT-WMB
2RU - 19" Rack Mount Kit	Comes with all hardware necessary to mount one or two desktop power supplies		ICT-RMK1

(a) Not available on;
ICT12012–4A
ICT12012–6A
ICT12048–12AR
ICT12048–15AR

(b) Excluding models;
ICT12012–4A
ICT12012–6A
ICT12048–12AR
ICT12048–15AR

(c) Not available on;
ICT12012–4A
ICT12048–12AR
ICT12048–15AR

Case Widths Explained

ICT Comm Series are available to fit standard radio widths of 7.1", with popular 12 volt models also available for 6.4" (AG) and 5.6" widths (AX) used by many radio manufacturers. This means you can choose the power supply that best matches the dimensions of your mobile radio.

Custom Models Available

At ICT we specialize in custom designs and modifications. If you don't see exactly what you need contact us and let our engineering and design team go to work for you.

ICT-RMK1 with two Comm Series power supplies installed.

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Specifications

12VDC Output

Model Number	Input Voltage Range	Output Voltage	Output Current (Cont.)	Output Current (Peak)	Current Limiting	Line Regulation	Load Regulation	Output Ripple (Max)	Efficiency (Typical)	Dimensions (inches)		
										L	W	H
ICT12012–4A	90–130 VAC	13.8 VDC +/– 300mV	3.0 Amps	4.0 Amps	4.5 Amps	0.50%	2.00%	20 mV RMS	75%	5.25	3.82	1.25
ICT12012–6A	90–130 VAC	13.8 VDC +/– 300mV	4.5 Amps	6.0 Amps	6.5 Amps	0.50%	2.00%	20 mV RMS	75%	5.25	3.82	1.25
ICT12012–10A	90-130 VAC	13.8 VDC +/- 150 mV	7.5 Amps	10.0 Amps	10.5 Amps	0.20%	0.75%	20 mV RMS	85%	7.60	Table	1.80
ICT12012–12A	90-130 VAC	13.8 VDC +/- 150 mV	10.0 Amps	12.0 Amps	12.5 Amps	0.20%	0.80%	20 mV RMS	85%	7.60	Table	1.80
ICT12012–15A	90–130 VAC	13.8 VDC +/– 150 mV	13.0 Amps	15.0 Amps	15.5 Amps	0.20%	0.80%	20 mV RMS	85%	7.60	Table	2.50
ICT12012–20A	90–130 VAC	13.8 VDC +/– 150 mV	17.0 Amps	20.0 Amps	20.5 Amps	0.20%	0.85%	20 mV RMS	85%	7.60	Table	2.50
ICT12012–30A	90–130 VAC	13.8 VDC +/– 150 mV	25.0 Amps	30.0 Amps	31.0 Amps	0.20%	0.85%	20 mV RMS	85%	7.60	Table	2.50

24VDC Output

Model Number	Input Voltage Range	Output Voltage	Output Current (Cont.)	Output Current (Peak)	Current Limiting	Line Regulation	Load Regulation	Output Ripple (Max)	Efficiency (Typical)	Dimensions (inches)		
										L	W	H
ICT12024–5A	90–130 VAC	27.6 VDC +/– 150 mV	4.0 Amps	5.0 Amps	5.5 Amps	0.20%	0.75%	20 mV RMS	85%	7.60	7.10	1.80
ICT12024–10A	90–130 VAC	27.6 VDC +/– 150 mV	8.0 Amps	10.0 Amps	10.5 Amps	0.20%	0.75%	20 mV RMS	85%	7.60	7.10	2.50
ICT12024–15A	90–130 VAC	27.6 VDC +/– 150 mV	13.0 Amps	15.0 Amps	15.5 Amps	0.20%	0.75%	20 mV RMS	85%	7.60	7.10	2.50

48VDC Output

Model Number	Input Voltage Range	Output Voltage	Output Current (Cont.)	Output Current (Peak)	Current Limiting	Line Regulation	Load Regulation	Output Ripple (Max)	Efficiency (Typical)	Dimensions (inches)		
										L	W	H
ICT12048–3A	90-130 VAC	48.0 VDC +/- 150 mV	2.5 Amps	3.0 Amps	3.5 Amps	0.50%	1.00%	20 mV RMS	85%	7.60	7.10	1.80
ICT12048–5A	90–130 VAC	48.0 VDC +/– 150 mV	4.0 Amps	5.0 Amps	5.5 Amps	0.50%	1.00%	40 mV RMS	80%	7.60	7.10	2.50
ICT12048-12AR	105–130 VAC	48.0 VDC +/– 300mV	10.0 Amps	12.0 Amps	12.5 Amps	0.25%	0.85%	50 mV RMS	85%	8.63	19.0	3.50
ICT12048-15AR	105–130 VAC	48.0 VDC +/– 300mV	13.0 Amps	15.0 Amps	15.5 Amps	0.25%	0.85%	50 mV RMS	85%	8.63	19.0	3.50

1. Input voltage range when ordering 220VAC models is 180–265VAC, and can be switched to 105–130VAC using internal jumper.
2. ICT22012–6A has an input voltage range of 105–250VAC and does not require switching.
3. Models not available with 220VAC input include ICT12012–4A, ICT12048–12AR and ICT12012–15AR.
4. For complete outline drawings go to www.ict–power.com/resources/downloads.

TABLE

Suffix		W
A	Standard Radio Width	7.10
AG	Narrow Radio Width	6.40
AX	Extra Narrow Radio	5.60

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