Product Catalog

VHF Amplifiers

Crescend®
TECHNOLOGIES
ISO 9001 Registered Firm

VHF 100 WATT MOBILE AMPLIFIER

136-174 MHz

PARAMETER	SPECIFICATION
Frequency Range:	136-174 MHz
Transmit current drain:	18 A nominal at rated power
Carrier Output Power Rating:	100 Watts nominal
Spurious and Harmonics:	Meets FCC specifications
Operating Voltage:	13.8 VDC nominal
Duty Cycle:	25% (2-minute maximum key)
Load VSWR Tolerance:	VSWR protected
Over Temperature:	Over Temperature protected (unit goes into bypass mode upon activation)
T/R Switching:	PIN diode, 200 us nominal switching time
Input/Output Impedance:	50 Ohms nominal
Input/Output Connectors:	UHF (other connector options available)
Operating Temperature Range:	-30°C to +60°C
Size:	2.8" H x 6.8" W x 9.8" D

INPUT POWER RANGE	
DSDTV100-R1	100-200 mW
DSDTV100-R2	200-500 mW
DSDTV100-R5	500-1000 mW
DSDTV100-01	1-2 W
DSDTV100-02	2-5 W
DSDTV100-05	5-10 W
DSDTV100-10	10-20 W
DSDTV100-20	20-45 W

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P5 Series VHF

136-174 MHz 50 Watts Output Power

Frequency Range:	136-174 MHz (DE)
Operating Voltage:	13.8 VDC
Current Draw:	12 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	50 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat Sink
Operating Temp. Range:	-30^0 C to $+60^0$ C
Storage & Transport:	-40^0 C to $+70^0$ C
Humidity:	80% at $+40^0$ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	7"
Horizontal Mounting:	19.0"
Depth:	6.0"
Weight:	10 pounds nominal

POWER INPUT RANGE

Model Description*	Required Power In	Power Output
P5-R1DE1-C5-001	100-200 mW	50 W
P5-R2DE1-C5-001	200-500 mW	50 W
P5-R5DE1-C5-001	500 mW-1 W	50 W
P5-1DE1-C5-001	1-2 W	50 W
P5-2DE1-C5-001	2-5 W	50 W
P5-5DE1-C5-001	5-10 W	50 W
P5-10DE1-C5-001	10-20 W	50 W

XX-Insert the letter definition for the frequency range chosen.

Cables sold separately. Power supplies are also available for these units.
By-Pass and T/R Switch Options are also available for these units.

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5-Pack

P5 Series VHF

136-174 MHz 50 Watts Output Power

Frequency Range:	136-174 MHz (DE)
Operating Voltage:	13.8 VDC
Current Draw:	12 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	50 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat Sink
Operating Temp. Range:	-30^0 C to $+60^0$ C
Storage & Transport:	-40^0 C to $+70^0$ C
Humidity:	80% at $+40^0$ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	7"
Horizontal Mounting:	3.4"
Depth:	19.0"
Weight:	10 pounds nominal

POWER INPUT RANGE

Model Description	Required Power In	Power Output
P5-R1DE1-C7-001	100-200 mW	50 W
P5-R2DE1-C7-001	200-500 mW	50 W
P5-R5DE1-C7-001	500 mW-1 W	50 W
P5-1DE1-C7-001	1-2 W	50 W
P5-2DE1-C7-001	2-5 W	50 W
P5-5DE1-C7-001	5-10 W	50 W
P5-10DE1-C7-001	10-20 W	50 W

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P10 Series VHF Low Band

30-50 MHz 100 Watts Output Power

Frequency Range:	3 Ranges: 30-36 MHz (AA), 36-42 MHz (AB), 42-50 MHz (AC)
Operating Voltage:	13.8 VDC
Current Draw:	23 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	100 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat Sink
Operating Temp. Range:	-30^0 C to $+60^0$ C
Storage & Transport:	-40^0 C to $+70^0$ C
Humidity:	80% at $+40^0$ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	7"
Horizontal Mounting:	19.0"
Depth:	6.0"
Weight:	10 pounds nominal

POWER INPUT RANGE

Model Description*	Required Power In	Power Output
P10-2XX1-C5-001	2-5 W	100 W
P10-5XX1-C5-001	5-10 W	100 W
P10-10XX1-C5-001	10-20 W	100 W
P10-20XX1-C5-001	20-50 W	100 W

XX-Insert the letter definition for the frequency range chosen.

Cables sold separately. Power supplies are also available for these units.
By-Pass and T/R Switch Options are also available for these units.

Crescend® TECHNOLOGIES ISO 9001 Registered Firm

5-Pack
P10 Series VHF Low Band

30-50 MHz 100 Watts Output Power

Frequency Range:	3 Ranges: 30-36 MHz (AA), 36-42 MHz (AB), 42-50 MHz (AC)
Operating Voltage:	13.8 VDC
Current Draw:	23 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	100 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	See chart below
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat Sinks
Operating Temp. Range:	-30^0 C to $+60^0$ C
Storage & Transport:	-40^0 C to $+70^0$ C
Humidity:	80% at $+40^0$ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	7.0"
Horizontal Mounting:	3.4"
Depth:	19.0"
Weight:	10 pounds

POWER INPUT RANGE

Model Description*	Required Power In	Power Output
P10-2XX1-C7-001	2-5 W	100 W
P10-5XX1-C7-001	5-10 W	100 W
P10-10XX1-C7-001	10-20 W	100 W
P10-20XX1-C7-001	20-50 W	100 W

**** XX-Insert the letter definition for the frequency range chosen.***

LOAD MISMATCH TOLERANCE

Full Power, Sustained Operation	1.5:1 or better
Sustained Operation at Reduced Power	2.5:1

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P10 Series VHF

136-174 MHz 100 Watts Output Power

Frequency Range:	136-174 MHz (DE)
Operating Voltage:	13.8 VDC
Current Draw:	23 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	100 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat Sink
Operating Temp. Range:	-30° C to +60° C
Storage & Transport:	-40° C to +70° C
Humidity:	80% at +40° C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	7"
Horizontal Mounting:	19.0"
Depth:	6.0"
Weight:	10 pounds nominal

POWER INPUT RANGE

Model Description*	Required Power In	Power Output
P10-R1DE1-C5-001	100-200 mW	100 W
P10-R2DE1-C5-001	200-500 mW	100 W
P10-R5DE1-C5-001	500 mW-1 W	100 W
P10-1DE1-C5-001	1-2 W	100 W
P10-2DE1-C5-001	2-5 W	100 W
P10-5DE1-C5-001	5-10 W	100 W
P10-10DE1-C5-001	10-20 W	100 W
P10-20DE1-C5-001	20-50 W	100 W

XX-Insert the letter definition for the frequency range chosen.
Cables sold separately. Power supplies are also available for these units.
By-Pass and T/R Switch Options are also available for these units.

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5-Pack Series

VHF/UHF – 100 W Output Power

Designed to be fully modular and space efficient,
Providing continuous duty operation.

General Specifications		
Band	VHF	UHF
Frequency Range:	136-144 MHz (DA) 144-152 MHz (DB) 152-162 MHz (EA) 162-174 MHz (EB)	403-450 MHz (UL) 450-512 MHZ (UH)
Current Draw:	23 Amperes (Max)	26 Amperes (Max)
Operating Voltage:	+13.8 VDC	
Duty Cycle:	100%	
Power Input:	See chart below	
Power Output:	100 Watts, set at factory	
Spurious & Harmonics:	-65 dBc	
Input/Output Impedance:	50 ohms (Nominal)	
Load VSWR Tolerance:	VSWR Protected	
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp	
Alarm:	Summary Alarm Pin	
Input/Output Connector:	Type 'N' Female	
Cooling Method:	Fan Forced Air Over Heat sink	
Operating Temp. Range:	-30^0 C to $+60^0$ C	
Storage & Transport:	-40^0 C to $+70^0$ C	
Humidity:	80% at $+40^0$ C (non-condensing)	
Altitude:	10,000 feet maximum	

SIZE	
Vertical Mounting:	7.0"
Horizontal Mounting:	3.4"
Depth:	19.0"
Weight:	10 pounds

POWER INPUT RANGE		
Model Description*	Required Power In	Power Output
P10-R1XX1-C7-001	100-200 mW	100 W
P10-R2XX1-C7-001	200-500 mW	100 W
P10-R5XX1-C7-001	500 mW-1 W	100 W
P10-1XX1-C7-001	1-2 W	100 W
P10-2XX1-C7-001	2-5W	100 W
P10-5XX1-C7-001	5-10 W	100 W
P10-10XX1-C7-001	10-20 W	100 W
P10-20XX1-C7-001	20-50 W	100 W

** XX-Insert the letter definition for the frequency range chosen.*

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P15 Series VHF

136-174 MHz 150 Watts Output Power

Frequency Range:	4 Ranges: 136-144 MHz (DA), 144-152 MHz (DB), 152-162 MHz (EA), 162-174 MHz (EB)
Operating Voltage:	13.8 VDC
Current Draw:	28 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	150 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat Sink
Operating Temp. Range:	-30^0 C to $+60^0$ C
Storage & Transport:	-40^0 C to $+70^0$ C
Humidity:	80% at $+40^0$ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	7"
Horizontal Mounting:	19.0"
Depth:	6.0"
Weight:	10 pounds nominal

POWER INPUT RANGE

Model Description*	Required Power In	Power Output
P15-R1XX1-C5-001	100-200 mW	150 W
P15-R2XX1-C5-001	200-500 mW	150 W
P15-R5XX1-C5-001	500 mW-1 W	150 W
P15-1XX1-C5-001	1-2 W	150 W
P15-2XX1-C5-001	2-5 W	150 W
P15-5XX1-C5-001	5-10 W	150 W
P15-10XX1-C5-001	10-20 W	150 W
P15-20XX1-C5-001	20-50 W	150 W

XX-Insert the letter definition for the frequency range chosen.

Cables sold separately. Power supplies are also available for these units.
By-Pass and T/R Switch Options are also available for these units.

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P25 Series VHF

136-174 MHz 250 Watts Output Power	
Frequency Range:	4 Ranges: 136-144 MHz (DA), 144-152 MHz (DB), 152-162 MHz (EA), 162-174 MHz (EB)
Operating Voltage:	13.8 VDC
Current Draw:	57 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	250 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	Full Power, Sustained Operation 1.5:1 or better
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat Sink
Operating Temp. Range:	-30^0 C to $+60^0$ C
Storage & Transport:	-40^0 C to $+70^0$ C
Humidity:	80% at $+40^0$ C (non-condensing)
Altitude:	10,000 feet maximum
SIZE	
Vertical Mounting:	10.5"
Horizontal Mounting:	19.0"
Depth:	6.0"
Weight:	25 pounds nominal

POWER INPUT RANGE

Model Description*	Required Power In	Power Output
P25-R1XX1-C6-001	100-200 mW	250 W
P25-R2XX1-C6-001	200-500 mW	250 W
P25-R5XX1-C6-001	500 mW-1 W	250 W
P25-1XX1-C6-001	1-2 W	250 W
P25-2XX1-C6-001	2-5 W	250 W
P25-5XX1-C6-001	5-10 W	250 W
P25-10XX1-C6-001	10-20 W	250 W
P25-20XX1-C6-001	20-50 W	250 W

XX-Insert the letter definition for the frequency range chosen.

Cables sold separately. Power supplies are also available for these units.

By-Pass and T/R Switch Options are also available for these units.

P35 Series VHF Power Amplifier

150-174 MHz 350 Watts Output Power	
Frequency Range:	150-174 MHz
Operating Voltage:	110 or 220 VAC
Current Consumption:	10 A (max) @ 110 VAC
Duty Cycle:	100%
Modulation:	FM/Constant Envelope
Power Input:	See chart below
Power Output:	350 Watts (nom), set at factory
Spurious & Harmonics:	Exceeds FCC specifications
Input/Output Impedance:	50 Ohms
Load VSWR Tolerance:	Full power, sustained operation 1.5:1 or better, VSWR protected above 2.5:1
Isolator:	Internal isolator included
Indicator LEDs:	Pwr On, Exciter Drive, Hi Temp, Hi VSWR, Hi Input, Low Output
Remote Monitoring Connector:	DB15 includes alarm and status pins, power control and Form C relay outputs
Input/Output Connector:	Type N female
Cooling Method:	Fan forced air over heat sink
Operating Temp. Range:	-30° C to +60° C
Storage & Transport:	-40° C to +70° C
Humidity:	80% at +40° C (non-condensing)

SIZE	
Vertical Mounting:	5.25 in
Horizontal Mounting:	19.0 in
Depth:	20.0 in
Weight:	35 lbs (16 kg)

POWER INPUT RANGE

Model Description	Required Power In	Power Output
P35-5E3-PS(2)-C8-001	5-10 W	350 W
P35-10E3-PS(2)-C8-001	10-20 W	350 W
P35-20E3-PS(2)-C8-001	20-50 W	350 W
P35-50E3-PS(2)-C8-001	50-100 W	350 W

UHF Amplifiers

Crescend®
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50 WATT UHF
MOBILE AMPLIFIER

PARAMETER	SPECIFICATION
Frequency Range:	403-450 MHz (UL); 450-512 (UH)
Transmit current drain:	11 A nominal at rated power
Carrier Output Power Rating:	50 Watts nominal
Spurious and Harmonics:	Meets FCC specifications
Operating Voltage:	13.8 VDC nominal
Ignition Wiring	13.8 VDC, amplifier active
Duty Cycle:	30% (3-minute maximum key)
Load VSWR Tolerance:	VSWR protected
Over Temperature:	Over Temperature protected (unit goes into bypass mode upon activation)
T/R Switching:	PIN diode, 600 us nominal switching time
Input/Output Impedance:	50 Ohms nominal
Input/Output Connectors:	UHF
Operating Temperature Range:	-30°C to +60°C
Size:	2.7" H x 6.8" W x 7.7" D

INPUT POWER RANGE		
DSDTUL50-02	403-450 MHz	1-5 W INPUT
DSDTUH50-02	450-512 MHz	1-5 W INPUT

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P5 Series - UHF

403 - 512 MHz – 50 Watts Output Power

Frequency Range:	403-450 MHz (UL) 450-512 MHz (UH)
Current Draw:	13 Amperes (Max)
Operating Voltage:	+13.8 VDC
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	50 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat sink
Operating Temp. Range:	-30⁰ C to +60⁰ C
Storage & Transport:	-40⁰ C to +70⁰ C
Humidity:	80% at +40⁰ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	7.0"
Horizontal Mounting:	19.0"
Depth:	6.0"
Weight:	10 pounds nominal

POWER INPUT RANGE

Model Description	Required Power In	Power Output
P5-R1XX1-C5-001	100-200 mW	50 W
P5-R2XX1-C5-001	200-500 mW	50 W
P5-R5XX1-C5-001	500 mW-1 W	50 W
P5-1XX1-C5-001	1-2 W	50 W
P5-2XX1-C5-001	2-5W	50 W
P5-5XX1-C5-001	5-10 W	50 W
P5-10XX1-C5-001	10-20 W	50 W

Cables sold separately.
By-Pass Circuits, T/R Switch and Power supplies are also available for these units.
Please call for Details.

Crescend® TECHNOLOGIES ISO 9001 Registered Firm

5-Pack

P5 Series UHF

Designed to be fully modular and space efficient, providing continuous duty operation.

General Specifications

Frequency Range:	403-450 MHz (UL), 450-512 MHz (UH)
Current Draw:	13 Amperes (Max)
Operating Voltage:	+13.8 VDC
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	50 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat sink
Operating Temp. Range:	-30^{0} C to $+60^{0}$ C
Storage & Transport:	-40^{0} C to $+70^{0}$ C
Humidity:	80% at $+40^{0}$ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	7.0"
Horizontal Mounting:	3.4"
Depth:	19.0"
Weight:	10 pounds nominal

POWER INPUT RANGE

Model Description*	Required Power In	Power Output
P5-R1XX1-C7-001	100-200 mW	50 W
P5-R2XX1-C7-001	200-500 mW	50 W
P5-R5XX1-C7-001	500 mW-1 W	50 W
P5-1XX1-C7-001	1-2 W	50 W
P5-2XX1-C7-001	2-5W	50 W
P5-5XX1-C7-001	5-10 W	50 W
P5-10XX1-C7-001	10-20 W	50 W

**** XX-Insert the letter definition for the frequency range chosen.***

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P10 Series UHF

403-512 MHz - 100 Watts Output Power

Frequency Ranges:	403-450 MHz (UL), 450-512 MHz (UH)
Operating Voltage:	+13.8 VDC
Current Draw:	26 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	100 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat sink
Operating Temp. Range:	-30^0 C to $+60^0$ C
Storage & Transport:	-40^0 C to $+70^0$ C
Humidity:	80% at $+40^0$ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	7.0"
Horizontal Mounting:	19.0"
Depth:	6.0"
Weight:	10 pounds nominal

POWER INPUT RANGE

Model Description*	Required Power In	Power Output
P10-R1XX1-C5-001	100-200 mW	100 W
P10-R2XX1-C5-001	200-500 mW	100 W
P10-R5XX1-C5-001	500 mW-1 W	100 W
P10-1XX1-C5-001	1-2 W	100 W
P10-2XX1-C5-001	2-5W	100 W
P10-5XX1-C5-001	5-10 W	100 W
P10-10XX1-C5-001	10-20 W	100 W
P10-20XX1-C5-001	20-50 W	100 W

XX-Insert the letter definition for the frequency range chosen.

Cables sold separately. Power supplies are also available for these units.
By-Pass and T/R Switch Options are also available for these units.

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5-Pack

P10 Series UHF

Designed to be fully modular and space efficient,
providing continuous duty operation.

403-512 MHz, 100 Watts Output Power

Frequency Range:	403-450 MHz (UL), 450-512 MHz (UH)
Operating Voltage:	+13.8 VDC
Current Draw:	26 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	100 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat sinks
Operating Temp. Range:	-30^0 C to $+60^0$ C
Storage & Transport:	-40^0 C to $+70^0$ C
Humidity:	80% at $+40^0$ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	7.0"
Horizontal Mounting:	3.4"
Depth:	19.0"
Weight:	10 pounds

POWER INPUT RANGE

Model Description	Required Power In	Power Output
P10-R1XX1-C7-001	100-200 mW	100 W
P10-R2XX1-C7-001	200-500 mW	100 W
P10-R5XX1-C7-001	500 mW-1 W	100 W
P10-1XX1-C7-001	1-2 W	100 W
P10-2XX1-C7-001	2-5W	100 W
P10-5XX1-C7-001	5-10 W	100 W
P10-10XX1-C7-001	10-20 W	100 W
P10-20XX1-C7-001	20-50 W	100 W

Crescend®
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P15 Series UHF

403-512 MHz - 150 Watts Output Power

Frequency Ranges:	403-450 MHz (UL), 450-512 MHz (UH)
Operating Voltage:	+13.8 VDC
Current Draw:	43 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	150 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat sink
Operating Temp. Range:	-30^0 C to $+60^0$ C
Storage & Transport:	-40^0 C to $+70^0$ C
Humidity:	80% at $+40^0$ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	10.0"
Horizontal Mounting:	19.0"
Depth:	6.0"
Weight:	14 pounds nominal

POWER INPUT RANGE

Model Description*	Required Power In	Power Output
P15-R1XX1-C6-001	100-200 mW	150 W
P15-R2XX1-C6-001	200-500 mW	150 W
P15-R5XX1-C6-001	500 mW-1 W	150 W
P15-1XX1-C6-001	1-2 W	150 W
P15-2XX1-C6-001	2-5W	150 W
P15-5XX1-C6-001	5-10 W	150 W
P15-10XX1-C6-001	10-20 W	150 W
P15-20XX1-C6-001	20-50 W	150 W

XX-Insert the letter definition for the frequency range chosen

By-Pass Circuits, T/R Switch and Power supplies are available.
Please call for Details.

Crescend TECHNOLOGIES ISO 9001 Registered Firm

UHF High Power Amplifier

UHF 250 Watts Output Power

Frequency Range:	406.1-420 MHz (GA), 450-454MHz, 456-462.5375MHz, 462.7375-467.5375MHz, 467.7375-470 MHz (HA)
Operating Voltage:	110 VAC (optional 220 VAC)
Current Consumption:	10 A (max) @ 110 VAC
Duty Cycle:	100%
Modulation:	FM/Constant Envelope
Power Input:	See chart below
Power Output:	250 Watts (nom), set at factory, with power control
Spurious & Harmonics:	Exceeds FCC specifications
Input/Output Impedance:	50 Ohms
Load VSWR Tolerance:	Full power, sustained operation 1.5:1 or better, VSWR protected above 2.5:1
Isolator:	Internal isolator included
Indicator LEDs:	Pwr On, Exciter Drive, Hi Temp, Hi VSWR, Hi Input, Low Output
Remote Monitoring Connector:	DB15 includes alarm and status pins, power control and RS232 communication interface
Input/Output Connector:	Type N female
Cooling Method:	Fan forced air over heat sink
Operating Temp. Range:	-30° C to +60° C
Storage & Transport:	-40° C to +70° C
Humidity:	80% at +40° C (non-condensing)

SIZE

Vertical Mounting	5.25 in (3RU)
Horizontal Mounting:	19.0 in
Depth:	20.0 in
Weight:	25 lbs (11.3 kg)

POWER INPUT RANGE

Model Description	Frequency	Input Power Range	Power Output
P25-10GA3-PS(x)-C8-001	406.1-420 MHz	10-20 W	250 W
P25-20GA3-PS(x)-C8-001	406.1-420 MHz	30-40 W	250 W
P25-R2HA3-PS(x)-C8-001	450-470MHz	0.2-0.5 W	250 W
P25-R5HA3-PS(x)-C8-001	450-470MHz	0.5-1 W	250 W
P25-1HA3-PS(x)-C8-001	450-470MHz	1-2 W	250 W
P25-2HA3-PX(x)-C8-001	450-470MHz	2-5 W	250 W
P25-5HA3-PS(x)-C8-001	450-470MHz	5-10 W	250 W

Note: x=1 denotes 110VAC, x=2 denotes 220 VAC

These specifications are subject to change without notice.

700 MHz Amplifiers

Crescend®
TECHNOLOGIES
ISO 9001 Registered Firm

50 WATT 700/800 MHz MOBILE AMPLIFIER

PARAMETER	SPECIFICATION
Frequency Range:	764-870 MHz
Transmit current drain:	11 A nominal at rated power
Carrier Output Power Rating:	50 Watts nominal
Spurious and Harmonics:	Meets FCC specifications
Operating Voltage:	13.8 VDC nominal
Duty Cycle:	30% (3-minute maximum key)
Load VSWR Tolerance:	VSWR protected
Over Temperature:	Over Temperature protected (unit goes into bypass mode upon activation)
By-Pass Relay:	PIN diode, 400 us nominal switching time
Input/Output Impedance:	50 Ohms nominal
Input/Output Connectors:	TNC
Operating Temperature Range:	-30°C to +60°C
Size:	2.8" H x 6.8" W x 9.8" D

INPUT POWER RANGE	
DSDTJK50-01T	1-4 W INPUT

Crescend®
TECHNOLOGIES
ISO 9001 Registered Firm

P8 Series 700/800 MHz

764-870 MHz - 80 Watts Output Power

Frequency Range:	764-870 MHz
Operating Voltage:	+13.8 VDC
Current Draw:	24 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	80 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat sinks
Operating Temp. Range:	-30^0 C to $+60^0$ C
Storage & Transport:	-40^0 C to $+70^0$ C
Humidity:	80% at $+40^0$ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	7.0"
Horizontal Mounting:	19.0"
Depth:	6.0"
Weight:	10 pounds nominal

POWER INPUT RANGE

Model Description	Required Power In	Power Output
P8-R1JK1-C5-001	100-200 mW	80 W
P8-R2JK1-C5-001	200-500 mW	80 W
P8-R5JK1-C5-001	500 mW-1 W	80 W
P8-1JK1-C5-001	1-2 W	80 W
P8-2JK1-C5-001	2-5W	80 W
P8-5JK1-C5-001	5-10 W	80 W
P8-10JK1-C5-001	10-20 W	80 W
P8-20JK1-C5-001	20-50 W	80 W

**** XX-Insert the letter definition for the frequency range chosen***

By-Pass Circuits, T/R Switch and Power supplies are available.
Please call for Details.

Crescend® TECHNOLOGIES

5-Pack

P8 Series 700/800 MHz

Designed to be fully modular and space efficient, providing continuous duty operation.

764-870 MHz - 80 Watts Output Power

Frequency Range:	764-870 MHz
Operating Voltage:	+13.8 VDC
Current Draw:	24 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	80 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat sinks
Operating Temp. Range:	-30^0 C to $+60^0$ C
Storage & Transport:	-40^0 C to $+70^0$ C
Humidity:	80% at $+40^0$ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	7.0"
Horizontal Mounting:	3.4"
Depth:	19.0"
Weight:	10 pounds

POWER INPUT RANGE

Model Description	Required Power In	Power Output
P8-R1JK1-C7-001	100-200 mW	80 W
P8-R2JK1-C7-001	200-500 mW	80 W
P8-R5JK1-C7-001	500 mW-1 W	80 W
P8-1JK1-C7-001	1-2 W	80 W
P8-2JK1-C7-001	2-5W	80 W
P8-5JK1-C7-001	5-10 W	80 W
P8-10JK1-C7-001	10-20 W	80 W
P8-20JK1-C7-001	20-50 W	80 W

Crescend®
TECHNOLOGIES
ISO 9001 Registered Firm

P15 Series 700-800 MHz

764-870 MHz - 150 Watts Output Power

Frequency Range:	764-870 MHz
Operating Voltage:	+13.8 VDC
Current Draw:	43 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	150 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat sinks
Operating Temp. Range:	-30^0 C to $+60^0$ C
Storage & Transport:	-40^0 C to $+70^0$ C
Humidity:	80% at $+40^0$ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	10.0"
Horizontal Mounting:	19.0"
Depth:	6.0"
Weight:	14 pounds nominal

POWER INPUT RANGE

Model Description	Required Power In	Power Output
P15-R1JK1-C6-001	100-200 mW	150 W
P15-R2JK1-C6-001	200-500 mW	150 W
P15-R5JK1-C6-001	500 mW-1 W	150 W
P15-1JK1-C6-001	1-2 W	150 W
P15-2JK1-C6-001	2-5W	150 W
P15-5JK1-C6-001	5-10 W	150 W
P15-10JK1-C6-001	10-20 W	150 W
P15-20JK1-C6-001	20-50 W	150 W

**** XX-Insert the letter definition for the frequency range chosen***

By-Pass Circuits, T/R Switch and Power supplies are available.
Please call for Details.

800-900 MHz Amplifiers

Crescend®
TECHNOLOGIES
ISO 9001 Registered Firm

5-Pack

P8 Series 900 MHz

Designed to be fully modular and space efficient,
providing continuous duty operation.

890-942 MHz - 80 Watts Output Power

Frequency Range:	890-942 MHz
Operating Voltage:	+13.8 VDC
Current Draw:	24 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	80 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat sinks
Operating Temp. Range:	-30^0 C to $+60^0$ C
Storage & Transport:	-40^0 C to $+70^0$ C
Humidity:	80% at $+40^0$ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	7.0"
Horizontal Mounting:	3.4"
Depth:	19.0"
Weight:	10 pounds

POWER INPUT RANGE

Model Description	Required Power In	Power Output
P8-R1L1-C7-001	100-200 mW	80 W
P8-R2L1-C7-001	200-500 mW	80 W
P8-R5L1-C7-001	500 mW-1 W	80 W
P8-1L1-C7-001	1-2 W	80 W
P8-2L1-C7-001	2-5W	80 W
P8-5L1-C7-001	5-10 W	80 W
P8-10L1-C7-001	10-20 W	80 W
P8-20L1-C7-001	20-50 W	80 W

Crescend®
TECHNOLOGIES
ISO 9001 Registered Firm

P15 Series 900 MHz

890-942 MHz - 140 Watts Output Power

Frequency Range:	890-942 MHz
Operating Voltage:	+13.8 VDC
Current Draw:	43 Amperes (Max)
Duty Cycle:	100%
Power Input:	See chart below
Power Output:	140 Watts, set at factory
Spurious & Harmonics:	Meets FCC Requirements
Input/Output Impedance:	50 ohms (Nominal)
Load VSWR Tolerance:	VSWR Protected
Indicator LEDs:	DC On, Low Output, High VSWR, High Temp
Alarm:	Summary Alarm Pin
Input/Output Connector:	Type 'N' Female
Cooling Method:	Fan Forced Air Over Heat sinks
Operating Temp. Range:	-30^0 C to $+60^0$ C
Storage & Transport:	-40^0 C to $+70^0$ C
Humidity:	80% at $+40^0$ C (non-condensing)
Altitude:	10,000 feet maximum

SIZE

Vertical Mounting:	10.0"
Horizontal Mounting:	19.0"
Depth:	6.0"
Weight:	14 pounds nominal

POWER INPUT RANGE

Model Description	Required Power In	Power Output
P15-R1L1-C6-001	100-200 mW	140 W
P15-R2L1-C6-001	200-500 mW	140 W
P15-R5L1-C6-001	500 mW-1 W	140 W
P15-1L1-C6-001	1-2 W	140 W
P15-2L1-C6-001	2-5W	140 W
P15-5L1-C6-001	5-10 W	140 W
P15-10L1-C6-001	10-20 W	140 W
P15-20L1-C6-001	20-50 W	140 W

**** XX-Insert the letter definition for the frequency range chosen***

By-Pass Circuits, T/R Switch and Power supplies are available.
Please call for Details

Crescend®
TECHNOLOGIES
ISO 9001 Registered Firm

LPA900-10-1R0R

942-962 MHz - 10 Watts Output Power

Frequency Range:	942-962 MHz
Rated Power Output:	10 W Average (Nominal)
Gain:	10 db (Nominal)
Input/Output Impedance:	50 ohms (Nominal)
Power Input:	1 W Average
Two-Tone IMR:	-43 dBc (Max), 1 W Avg. Input Power, 1 MHz spacing
Spurious & Harmonics:	-63 dBc (Max)
AC Input Voltage:	110 VAC
AC Input Current:	1.5 Amps (Max)
RF Connectors:	N Connectors
Cooling Method:	Fan Forced Air Over Heat sinks (Continuous Fan Operation)
Operating Temp. Range:	0^0 C to $+60^0$ C. Ambient
Storage & Transport:	-40^0 C to $+85^0$ C
Operating Humidity:	0 % -80 % RH (Non-Condensing)
Storage Humidity:	0 % -95 % RH (Non-Condensing)
Altitude:	10,000 Feet Maximum

SIZE

Vertical Mounting:	7.0"
Horizontal Mounting:	19.0"
Depth:	15.0"
Weight:	28 pounds nominal

DESCRIPTION/POWER RANGES

For use with Moseley Starlink SL9003 Q and similar digital STL (Studio Transmitter Link) products to overcome excessive path loss or increase the robustness of the signal path.

Paging Amplifiers

Crescend TECHNOLOGIES
ISO 9001 Registered Firm

928-942 MHz Paging Power Amplifier

928-942 MHz 250 Watts Output Power	
Frequency Range:	928-942 MHz
Operating Voltage:	110 VAC / 220 VAC
Current Consumption:	10 A (max) @ 110 VAC
Duty Cycle:	100%
Modulation:	FM/Constant Envelope
Power Input:	See chart below
Power Output:	250 Watts (nom), set at factory, with power control
Spurious & Harmonics:	Exceeds FCC specifications
Input/Output Impedance:	50 Ohms
Load VSWR Tolerance:	Full power, sustained operation 1.5:1 or better, VSWR protected above 2.5:1
Isolator:	Internal isolator included
Indicator LEDs:	Pwr On, Exciter Drive, Hi Temp, Hi VSWR, Check Fan, Hi Input, Low Output
Remote Monitoring Connector:	DB15 includes alarm and status pins, power control and RS232 communication interface
Input/Output Connector:	Type N female
Cooling Method:	Fan forced air over heat sink
Operating Temp. Range:	-30° C to +60° C
Storage & Transport:	-40° C to +70° C
Humidity:	80% at +40° C (non-condensing)

SIZE	
Vertical Mounting:	5.25 in
Horizontal Mounting:	19.0 in
Depth:	20.0 in
Weight:	24.5 lbs (11.1 kg)

POWER INPUT RANGE

Model Description	Required Power In	Power Output
P25-R2L3-PSx-C8-001	0.2-0.5 W	250 W
P25-R5L3-PSx-C8-001	0.5-1 W	250 W
P25-1L3-PSx-C8-001	1-2 W	250 W
P25-2L3-PSx-C8-001	2-5 W	250 W
P25-5L3-PSx-C8-001	5-10 W	250 W
P25-10L3-PSx-C8-001	10-20 W	250 W
P25-20L3-PSx-C8-001	20-50 W	250 W

These specifications are subject to change without notice.
X=1 for 110VAC, X=2 for 220VAC