



The 3520 transceiver supply is an extremely rugged, lightweight and compact unit that provides stable DC power from AC mains for the 2110 series transceivers in a standard 25 watt and 125 watt, with 3160 PA configurations.

## LOW NOISE

Unlike commercially available power supplies the 3520 is specifically designed to power sensitive radio equipment – the extremely low conducted and radiated emissions eliminate interference with communications.

## FULL PROTECTION

The 3520's universal AC mains input is protected against over-voltage, excessive inrush currents, and voltage transients. The DC output is protected against short-circuit, under-voltage and over-voltage in the case of fault conditions, and features fold-back current limiting. The supply will shut down if it is exposed to excessive temperatures. Fault conditions are indicated by a status LED.

## STANDBY BATTERY SUPPORT

The 3520 supports parallel connection of a standby battery to provide power in the event of mains interruption. When a flat battery occurs the 3520 limits charge current and precisely regulates the float voltage.

## KEY FEATURES

- Extremely low RF noise
- Suits 25 and 125 W systems
- Universal mains input
- 25 A output current
- Supports standby battery
- Protected against fault conditions
- Fault status indicator
- Lightweight and compact
- MIL-STD-810G environmentals
- Installs into 2110 Cradle
- Shock mount available
- Auxiliary 12 V DC output for powered speaker



# POWER SOLUTIONS

# 3520 TRANSCEIVER SUPPLY



CODAN  
COMMUNICATIONS

## SPECIFICATIONS

<b>Mains input voltage</b>	100–240 V AC Nominal, $\pm 10\%$ , 50–60 Hz
<b>DC output voltage</b>	13.8 V $\pm 0.1$ V
<b>DC output current (total)</b>	25 A continuous $< 45^{\circ}\text{C}$ ( $< 113^{\circ}\text{F}$ ) ambient Derating linearly to 16 A at $60^{\circ}\text{C}$ ( $140^{\circ}\text{F}$ ) ambient
<b>Load regulation</b>	-2% max, to full load
<b>Line regulation</b>	$\pm 0.1\%$
<b>Temperature stability</b>	$\pm 1.5\%$
<b>Ripple and noise</b>	$< 100$ mV P-P
<b>Operating temperature</b>	$-30$ to $+60^{\circ}\text{C}$ ( $-22$ to $+140^{\circ}\text{F}$ )
<b>Operating humidity</b>	95% RH non-condensing, max
<b>Storage temperature</b>	$-40$ to $+70^{\circ}\text{C}$ ( $-40$ to $+158^{\circ}\text{F}$ )
<b>Dimensions</b>	300 mm W x 250 mm D x 95 mm H (11.8 in W x 9.8 in D x 3.7 in H)
<b>Weight</b>	3.1 kg (6.8 lb)
<b>Colour</b>	Black or green
<b>Protection</b>	AC over-voltage (275 V AC continuous, 440 V AC withstand) AC in-rush current (limited to 40 A) DC under/over-voltage (shut down $< 11$ V or $> 17$ V) DC over-current (fold-back at $> 25$ A) Over-temperature shutdown Reverse polarity battery connection protected Fuse protected input and output
<b>Compliance</b>	C-Tick / CE / FCC / UL / D-Mark / EU RoHS

Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.

## ACCESSORIES

- **Mounting hardware:** Vehicle Mounting Cradle, Vehicle Shock Mount
- **Cables:** Mains input, 2 m cable with USA/UK/EU/AU plug, DC output 2 m cable to suit 2110M/3160 systems