

# Power Supplies - Heavy Duty Series

These super-rugged DC supplies are ideal for powering 12 and 24 volt communication equipment in base stations, remote sites and mobile communication applications where reliability is essential. The proven linear circuit design provides pure output and long life.

## Features

- Excellent Regulation and Ripple Spec: Output voltage maintained within 1% under all line and load conditions within rating
- Polyurethane conformal coated PC board and corrosion resistant heavy duty aluminum case with integral shock mounts assures survival in hostile environments
- Heat generated by semi-conductors is extracted and dissipated by large heat sink fins for cool operation.
- Protection: overvoltage, current limit; (set @ 105% of intermittent rating), thermal overload and input/output fusing.
- Thermally activated cooling fan on "CD" units.



## Input Range

105-125/210-250 VAC (selectable), 50-60 Hz  
Derate to 50% output below 110 and 220 VAC

## Operating Temperature

### Standard Units

0-50°C, Derate Linearly From 100% @ 40°C To 50% @ 50°C Thermal shutdown @ 85°C Case temperature

### C.D. Units

0-65°C, Derate Linearly From 100% @ 50°C To 50% @ 65°C Thermal Shutdown @ 85°C Case temperature

## Duty Cycle

**Intermittent:** 20 minutes max on time, 20% duty

**Continuous:** 24 Hours/Day 100% Duty

## Options

- Modify for use as a Battery Charger
- Output voltage adjust (see Output Voltage for range)

## Output Voltage

### 12 V Models:

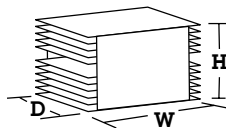
13.6 VDC (Internally adjustable 12.6-14.5 VDC)  
Ripple: 40mV P-P (@ 110-125 / 220-250 VAC input)

### 24 V Models:

24.5 VDC (Internally adjustable 21-27.5 VDC)  
Ripple: 70mV P-P (@ 110-125 / 220-250 VAC input)

## Specifications

Model	Nominal Input/VAC	Output Amperage		Case Size Ref.	Weight	
		Intermittent	Continuous		Lbs.	Kg.
<b>12 Volt Output</b>						
115-12-8	115/230	8	5	P-2	10	4.5
115-12-20A	115/230	20	8	P-3	20	9.1
115-12-35CD	115/230	35	35	P-5	32	14.6
<b>24-Volt Output</b>						
115-24-10	115/230	10	4	P-3	20	9.1
115-24-18CD	115/230	18	18	P-5	32	14.6
115-24-35CD	115/230	35	35	P-6	60	27.3



	Inches			Centimeters		
	H	W	D	H	W	D
P-2	6.0	4.6	8.5	15.2	11.7	21.6
P-3	5.7	4.8	16.3	14.5	12.2	41.4
P-5	6.5	9.5	14.0	16.5	24.1	35.6
P-6	6.5	13.0	18.75	16.5	33.0	47.6

**Regulation All Models:** 1% Line and Load (@ 110-125 / 220-250 VAC input)

## Power-Pac: Power Supply With Built-in Battery Back-up



Designed for critical base stations and repeater sites that must remain "on-line", even in the event of AC power failure or brown-out which would disable conventional power supplies. The Power-Pac offers peace of mind for the system designer or base station operator. This unique power supply assures that a base station can remain up and running to power communications when it is often needed most - during a power outage.

Model	Battery Capacity	Weight	
		lbs.	kg.
Power-Pac 7A/H	7 amp/hour	18	8.2
Power-Pac 14A/H	14 amp/hour	24	10.9

See [www.newmartelecom.com/power-pac](http://www.newmartelecom.com/power-pac) for detailed specifications.



*Powering the Network*