



Complete Train Control
Run Your Trains, Not Your Track!

PS2012E

20 Amp
All Scales
Regulated
Power Supply

Features:

- Operate one or more boosters -with a single PS2012E supply.
- Scale selectable for use with N, HO or large scale.
- Design Coordinated for use with Digitrax products
- Built-in unit over-current and over-temp protection
- DC Output Current Ammeter
- On/Off Switch
- Integral Cooling fan
- One 'Y' Cable (P/N YC52) Included for convenience with dual 5 amp protected outputs



Parts List

- 1 PS2012E Power Supply
1 'Y' Cable (P/N YC52) with dual 5 amp protected outputs
- 1 Instruction Sheet

Getting Started

The PS2012E power supply is a heavy-duty unit designed to drive one or more boosters in a DCC environment. It can also be used for high current applications in standard DC environment.

Controls and Connectors

Front panel controls and connectors provided on the front panel are:

- On/Off Switch
- DC Amperes output current meter
- Scale selectable outputs for N, HO, or Large scale operation
- Dual DC output connections

DC connectors - **Figure 1** - shows DC power-out connectors. Two pairs of binding posts are provided for ease of connection to multiple boosters. In addition to the power on/off switch, the PS2012E has a selector switch for N scale, HO scale, and G (or large scale) operation. The unit also has a built-in output current meter for monitoring total layout current load.

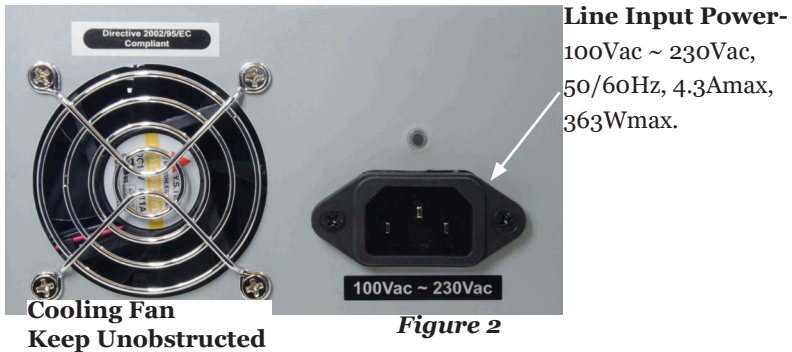
Output Current Meter



Figure 1

DC Power out connections

Back panel controls and connections: The PS2012E IEC C14 input supports 100Vac ~ 230Vac, 50/60Hz, 4.3Amax, 363Wmax. For safety grounding the PS2012E must use a IEC C13 style cordset with a properly grounded AC receptical. Please insure it is a grounded 3 wire type cord constructed of 18 AWG wire and rated for at least 250 volts.



**Cooling Fan
Keep Unobstructed**

Figure 2

Line Input Power-
100Vac ~ 230Vac,
50/60Hz, 4.3Amax,
363Wmax.

Installation

All secondary devices need to be properly fused on their power input leads for their rated capacity. For example if you intend to use the PS2012E to drive a 5 and an 8 amp booster, you must **input fuse** these devices for 5 and 8 amps respectively. A fuse in this case can be a traditional fuse, a circuit breaker, a thermal fuse or a Polyfuse™ type self resetting limiter. The PS2012E can be used with any Digitrax command station or booster. The PS2012E can also be used to power other manufacturers boosters provided the input fusing guideline above is followed.

The term “PolyFuse” is a registered trademark of the Wickmann company for a resettable overcurrent protection device. Similar units made by Raychem Co. a:e called “Polyswitch” while those made by Bourns are called “MultiFuse”.

Installation and Maintenance Considerations

Your PS2012E is overload protected. Should you experience a power supply shutdown, please unplug the power supply, and allow at least 60 seconds for the PS2012E to reset internally.

The PS2012E is designed to operate in conditions between 5°C and 38°C, 0-95% humidity (non-condensing), and altitudes up to 2,000 m.

The rear fan and intake vents should be as unobstructed as possible so as not to impede airflow. In particular, avoid placing objects within 2 inches of the intake vents or exhausts of the fan itself. The rear fan will run as needed to cool the unit. On earlier PS2012 units the fan may run continuously.

Accumulated dust can be cleaned from the PS2012E using a small vacuum or compressed air. A dry cloth can be used to wipe the exterior. The unit should be unpowered during cleaning. The unit should never be opened or immersed in any liquids.

Warning: Failure to use equipment as specified in this instruction sheet may impair protection provided.

Configuration

To connect the PS2012E to boosters and other 5 amp rated devices, use the ‘Y’ cable shown below:

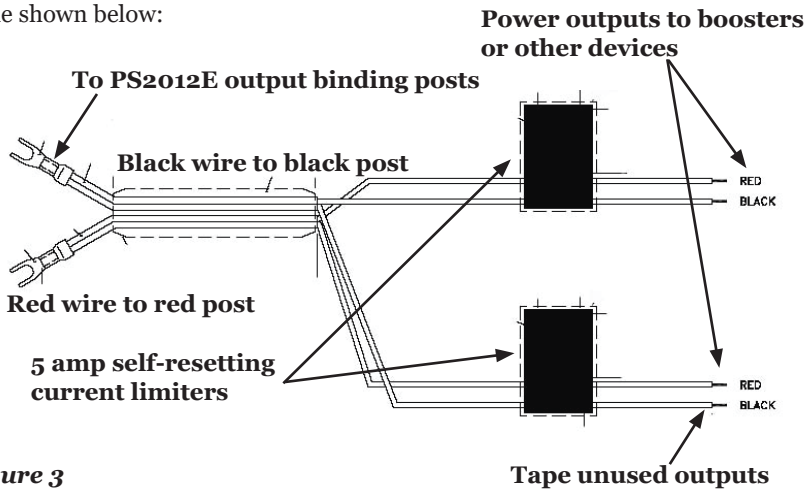


Figure 3

Two ‘Y’ cables are required for 4 boosters at 5 amps. Additional ‘Y’ cables can be ordered from your local dealer. The ‘Y’ cable part number is YC52.

The final step is to properly set the front panel selector switch for your scale:

- The ‘G’ setting configures the supply to output 23 volts at 12 amps max.
- The ‘HO’ setting configures the supply to output 16 volts at 16 amps max.
- The ‘N’ setting configures the supply to output 13.8 volts at 20 amps max.

Warranty & Repair

Digitrax gives a one year “No Worries” Warranty against manufacturing defects and accidental customer damage on all Digitrax command stations, boosters, throttles, decoders, power supplies and layout control devices.

That’s it! A simple, straightforward warranty with no tricky language!

Visit www.digitrax.com for complete warranty details and instructions for returning items for repair.

Please return warranty items directly to Digitrax - DO NOT return items to place of purchase.



2443 Transmitter Road
Panama City, FL 32404
www.digitrax.com

Need Support?
helpdesk.digitrax.com

PS2012E



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