

Table 3**Powerwerx SS-30DV, serial no. n/a****Manufacturer's Specifications**

Power requirement:	100-120 or 200-240 V ac, 50/60 Hz.
Output voltage:	13.85 V dc.
Output current (continuous):	25 A (30 A max).
Size (HWD):	2.5 × 5.0 × 7.0 inches; weight, 3.0 pounds.
Price:	\$120.

ARRL Lab Measurements

Output voltage, no load:	13.92 (fixed).
Output voltage, 20 A load:	13.8 V dc.
Low line drop out voltage:	73 V ac.
DC variation during dynamic testing:	120 mV.
Efficiency:	74.4% at 7 A; 80% at 20 A.

**POWERWERX SS-30DV**

At three pounds, the SS-30DV is the lightest and smallest supply in this group. It's rated for 13.85 V dc fixed at 25 A continuous output current (30 A maximum). Thermal and overcurrent protection are included. There is no output metering.

The front panel includes an illuminated power ON/OFF switch and two sets of Anderson Powerpole connectors. The Powerpoles conform to the typical ARRL ARES® configuration and can handle the maximum supply output current. A set of binding posts is available on the rear panel, along with a removable power cord. An adjacent switch selects between 115 V and 230 V ac line voltage.

The temperature controlled internal cooling fan on the rear panel is quiet. It draws air through vents in the side and bottom panels of the metal case.

Documentation is on a single sheet and covers features, specifications, installation, operation and troubleshooting. It also includes a list of certifications, including FCC Part 15 compliance — the only supply in this group

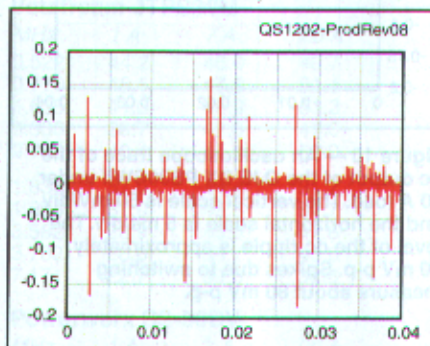


Figure 8 — An oscilloscope trace of the dc output of the Powerwerx SS-30DV under 20 A load. The vertical scale is 50 mV/div and the horizontal scale is 5 ms/div. The level of the dc ripple is approximately 30 mV p-p. Spikes due to switching measure about 350 mV p-p.

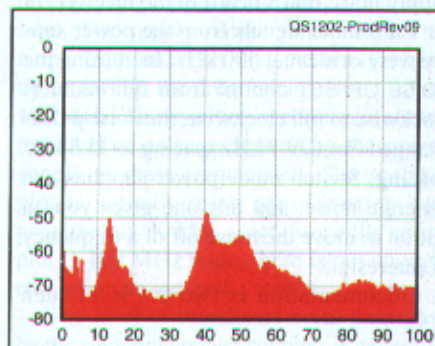


Figure 9 — Spectral plot (0-100 MHz) of the output of the Powerwerx SS-30DV under 20 A load. The reference level is 0 dBm and the vertical scale is 10 dB/div.

to do so. Terms of the limited three year warranty are spelled out in detail.

Powerwerx notes that they are in the process of increasing the output voltage of the SS-30DV to 14.1 V dc to make it more compatible with the West Mountain Radio

Super Powergate, used to charge Gel and AGM batteries. As of press time, we have not yet seen this version.

Manufacturer: Powerwerx, 263 N Berry St, Brea, CA 92821; tel 888-321-0073, fax 714-674-4949; www.powerwerx.com.

QJE DX PS30SWII

The QJE DX PS30SWII is very similar to the Jetstream JTPS30M. Packaging and specifications are nearly identical. Output

voltage is switchable — either 13.8 V fixed or 9 to 15 V adjustable. Current rating is 25 A continuous output or 30 A maximum. Thermal protection, short circuit protection

and current limiting at more than 30 A are included.

Like the Jetstream unit, an illuminated front panel meter is switchable be-

Table 4**QJE DX PS30SWII, serial no. 004716****Manufacturer's Specifications**

Power requirement:	110 V ac.
Output voltage:	Adjustable, 9-15 V dc.
Output current (continuous):	25 A (30 A max).
Size (HWD):	2.7 × 7.5 × 8.5 inches; weight, 5.1 pounds.
Price:	\$120.

Lab Measurements

Output voltage, no load:	13.67 V dc (fixed), or 8.01-14.77 V dc (variable).
Output voltage, 20 A load:	13.56 V dc.
Low line drop out voltage:	68 V ac.
DC variation during dynamic testing:	110 mV.
Efficiency:	79.5% at 7 A; 80.2% at 20 A.

