



A Solar-Charged Portable Power Station

For R/C Aircraft and Field Equipment

Designed and Built by Gary Stevens

Features

- 10 Watt solar panel charges an internal battery and supplies multiple DC and AC outputs
- Internal 12V 12AH sealed lead-acid "gel-cell" battery provides high output current capability and power for cloudy days
- Built-in solar charge regulator automatically optimizes solar charging and protects battery from over-charge damage
- Built-in DC-AC inverter provides two 120VAC outputs capable of 150 watts
- Built-in 4-output NiMH charger simultaneously charges up to four flight packs (4 or 5-cell). Charge indicators are provided on each channel.
- Illuminated 3½ digit Digital Voltmeter provides high accuracy battery voltage readout
- Ammeter displays solar-charging current
- Fold-down rear table provides convenient work surface for chargers and equipment
- Swing-open solar panel provides access to internal storage area for chargers, cables, adapters and tools
- Provision for connection of additional solar panels for increased performance
- Provides fused +12V output at up to 15A
- Provides electronically-switched "Protected" output at up to 5A for additional protection against over-discharge of internal battery
- **Solar generation is sufficient to fly a 33% Extra-260 + DA-85 perpetually for 12-minute flights followed by 40-minute ground recharges. The plane's three batteries will go home fully charged! The Solar-Charged Power Station's internal battery will remain fully charged unless there are clouds.**
- With no sunshine the internal battery can charge a 33% gas airplane for about 25 flights.
- ½" thick birch-veneer 9-ply cabinet construction provides rugged but attractive package with ample ventilation to protect delicate electronics
- Parts Cost: About \$300 (excluding cabinetry)
- Weight: 24 pounds

