



# OMNIPOWER

THE POWER OF CHOICE

# COMPACT SOLAR SYSTEM

## Self-Contained PV Solar System

Prime power source for schools, hospitals and rural villages.

### FEATURES

- Optional: CIS170W/250W/260W solar panels
- Includes OPS 120Ah batteries
- Power rating of up to 3kW
- Fully automated
- Low Maintenance
- Powder-coated steel cabinet
- Convection Cooling
- Pre-wired and engineer-tested
- Solid, stable and easy to install
- Tamper and theft-proof
- Vermin-proof
- Mains/Generator Input
- Input and Output breakers
- DC Fuse for battery input

Can provide more than 4 hours' of power per day, depending on battery set and load drawn.

MAGNOX (8-WAY)



ELEKTRON (4-WAY)









**FULL REMOTE CONTROL VIA THE INTERNET!**

Our Compact Solar Systems are completely self-contained power stations. They boast powder-coated steel cabinets housing an inverter and controller of your choice, remote controls (optional) and a bank of 4 (Elektron) or 8 (Magnox) batteries. The units are solar-ready and can be supplied with 6 x 260W or 12 x 250W, or 9 x CIS170W or 18 x CIS170W solar panels, which need to be connected.

The cabinets have the facility to be bolted against a wall and have provision for three padlocks (not included) for secure locking of the unit. Mains or generator input comes standard for instances where there is insufficient sunshine to recharge the batteries. A Distribution Box with input and output breakers as well as a DC fuse set also comes as standard.

Four sturdy feet raise the cabinet off the ground to prevent water ingress and allow for cleaning beneath the unit.

# Compact Solar System - Shortform Datasheet

				
<b>Elektron: 4-Way Cabinet</b>	<b>Magnox: 8-Way Cabinet</b>	<b>GVFX3048E Outback Power Vented True Sinewave Inverter / Charger</b>	<b>FLEXmax 60 Outback Power Continuous Maximum Power Point Tracking (MPPT) Charge Controller</b>	<b>OPS Battery OmniPower Fully-sealed Deep Cycle Rechargeable AGM + Gel VRLA Hybrid Solar Batteries</b>
<b>Material:</b> Powder-coated steel	<b>Material:</b> Powder-coated steel	<b>Nominal DC Input Voltage:</b> 48VDC	<b>Nominal Battery voltages:</b> 12, 24, 36, 48 or 60VDC	<b>Nominal Voltage:</b> 12V
<b>Dimensions H x W x D (mm)</b> 1350 x 835 (1670 with doors open) x 485  190kg	<b>Dimensions H x W x D (mm)</b> 1700 x 835 (1670 with doors open) x 485  320kg	<b>Continuous Power Rating:</b> 3000VA (2.4kW)	<b>Maximum Output Current:</b> 60A	<b>Rated capacity:</b> 120Ah
 <b>X-MC4 TYPE:</b> Connectors. Male and Female.  <b>External cable diameter:</b> 5.5mm to 7.2mm		<b>AC Voltage / Frequency:</b> 230VAC / 50Hz	<b>NEC Recommended Solar Maximum Array STC Nameplate:</b> 48VDC Systems: 3000W	<b>Weight:</b> 30kg
		<b>Maximum output current:</b> 13A	<b>Weight:</b> 5.3kg	<b>Dimensions H x W x L (mm):</b> 215 x 174 x 330
		<b>AC input current maximum:</b> 30A	<b>Dimensions H x W x D (mm):</b> 350 x 146 x 114	<b>Design Life on Standby:</b> 8 to 10 Years. Up to 4200 cycles with a 20% DoD
		<b>Weight:</b> 28kg		
		<b>Dimensions H x W x L (mm):</b> 300 x 210 x 410		

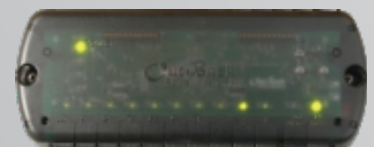
Inverter Model	Battery QTY	Backup Time* at Full Load (2400W)	Backup Time* at Half Load (1500W)	Recharge Time from Half Discharge	Recharge Time from Full Discharge	Panel size	QTY	Wh produced per day
GVFX3048E	4	60 Minutes	120 Minutes	0.5 Days	1 Day	260W	6	7 950 Wh
GVFX3048E	8	120 Minutes	240 Minutes	1 Days	2 Days	250W	12	15 300 Wh
GVFX3048E	4	60 Minutes	120 Minutes	0.5 Days	1 Day	CIS170W	9	8 500 Wh
GVFX3048E	8	120 Minutes	240 Minutes	1 Day	2 Days	CIS170W	18	17 000 Wh

\* Estimated  
Backup Time is calculated with no sunshine and 0.5 DOD for the batteries. Recharge time for batteries are based on the fact that the load is still connected while only solar power is used to charge, no Eskom or generator.

### OPTIONAL EXTRAS:



MATE3 Advanced System Display & Controller



HUB 4 Systems Communications Manager



The Magnox and Elektron pictured on the page overleaf are designed to be fixed to the wall of a classroom and will power 24 laptops each.