Full Effekta installation of emergency lighting system, Dublin airport, Terminal 2

Powervamp PPS range

Powervamp's AC programmable power supplies are designed for industrial product testing, avionics work, power conversion, automatic test equipment and military applications.

The advanced switch mode solid state PWM technology results in a slim, compact and lightweight unit that can operate on the workbench or as part of a rack-mounted system. The input voltage range of 90–265 volts 50/60Hz allows worldwide use.

Designed for easy operation and perfect for test bench applications, Powervamp programmable power supplies are available in three output power ratings: 500VA,1000VA,1500VA. Voltage and frequency are instantly adjustable using the panel-mounted rotary encoder control with parameters indicated by a bright fluorescent display.

FEATURES

- Compact size and light weight, standard 19in rack construction
- Stepless frequency setting from 45Hz to 450Hz
- Very low distortion sine wave output
- Output voltage range selectable 135V or 270V AC. Voltage is steplessly adjustable between 0–135V and 0–270V AC
- Galvanically isolated input/output
- Independent on/off switch for input and output
- 16 x 2 vacuum florescent display for parameter display
- Complete operation through push switches and a digital rotary encoder
- Automatic protection against overload, short circuit and over temperature
- Built in PFC to provide 0.99 input power factor and wide input range
- Conforms to EN55022, class A, safety standard EN60950

Voltage power optimiser system

Domestic grid voltage is always a nominal voltage supplied within a +/- tolerance. With motors, appliances and inductive loads designed to operate at an optimum voltage – typically 230 volts 50Hz in Europe, or 110 volts 60Hz in the US, any increase above appliance design voltage will use more electric power than is necessary. In the UK, domestic voltages can be as high as 245 volts with a maximum permissible of 253 volts, wasting significant power and resulting in excessive electricity charges. This can also lead to premature component failure. The same is true in other countries where extreme voltage fluctuations can add massively to electric bills and costs through premature equipment failure.

Effekta's power optimiser units monitor the incoming voltage and prevent the voltage from exceeding the set nominal voltage. An initial site survey by Effekta's technical engineering staff and a brief current monitoring exercise determines if the inductive load and voltage fluctuations within the site justify the installation of such equipment. In the correct environment of airport, mall, convention centre or large illuminated compounds, equipment payback can be within 24 months.