

Emergency Lighting DC Power Supply Systems

Our Emergency Power DC systems provide a superior regulated output to your critical loads, with higher efficiency, higher reliability and smaller physical size than has been available in the market to date.

All models have hot swappable power modules, based on industry standard 19 Inch IT rack modules, ranging from 1RU (44mm), 2RU (88mm), 3RU (132mm) to 4RU, (176mm).

Features:

- Switchmode technology for higher efficiency, low ripple, more accurate regulation# and smaller profiles, power factor > 0.95 and low input current harmonics.
- Fully automatic with remote ON/OFF control
- Fully Protected for overvoltage, overload, short-circuit & over temperature
- Separate Charger specifically to extend SLA battery life
- Seamless change-over from Batteries to Regulated DC.
- Output is regulated to 1% even during battery discharge / re-charge
- Built in IR volt drop compensation or remote sense, (up to 0.5 V DC)
- Output Alarm signals for DC and Charger

#This results in longer bulb life, constant lumen / light output and colour.



The Range:

Cubicle /enclosure sizes vary depending on battery back-up requirements.

Model BC 19 inch rack mount units are available in 24, 48, 72, 110 and 220 V DC configurations. With current ratings from

10 Amperes – 60 Amperes

Flexible Battery Configuration.

With comparable battery ranges from 24 Volts (nominally) to 120 V DC (nominally), (Actual ranges 18 – 27, 18 – 72 and 72-144 Volts DC)

This translates to greater flexibility in selection of batteries, higher voltages mean lower currents and higher efficiencies.

Simplicity Is The Key:

At Static Power, we believe in keeping things simple while maintaining the full functionality of our equipment. It is for this reason our equipment is so easy to operate.

Communication / Monitoring:

The standard units are fitted with three voltage-free status contacts and three remote inputs. If you require a more advanced monitoring solution, we also offer monitoring & control through MODBUS.

Maximum Reliability:

Each unit features a high reliability, low maintenance, robust design with redundant detection circuitry. We are so confident of the reliability of our equipment, we offer the industry's longest warranty period. Monitors the battery path for continuity and provides temperature compensation and deep discharge protection to ensure maximum life from the batteries.

Local Support:

Static Power is renowned for support in the critical Power industry. Our solutions are Global. We provide equipment and support throughout Australia and South East Asia.

Options

- Single or up to 12 output circuits, allow for maintained or non-maintained loads
- Standard alarm outputs allow integration into most building management systems
- The SLA uses the 10-year design life battery. Standard ranges that can be augmented with alternative batteries and durations
- Contactor Bypass
- N+1 available

Standards:

- EN60598.2-22, AS/NZ 3900, CE, IEC60950-1, EN55022

Features	Benefits
<i>Rugged</i>	<i>High reliability, wide operating temperature range</i>
<i>Seamless Change-over Transfers</i>	<i>Prevent paralleling of input sources</i>
<i>Continuously regulated</i>	<i>Output is maintained at constant voltage even during battery discharge</i>
<i>Large Overload and Fault Capacity</i>	<i>Suitable for installations with fault capacity up to 20kA</i>
<i>Separate Charger to extend battery life</i>	<i>Current Limited, float charger</i>
<i>IR volt drop compensation or remote load voltage sensing</i>	<i>Longer lamp life, more stable light colour and intensity</i>

Specifications

Rating	20/32/40/50 & 63 Amperes RMS
Nominal Voltage Rating	24 /48 / 72 /110 & 220 V DC
Adjustment Range	-5% to +25%
Line / Load Regulation	Better than 1%
Over Voltage Protection	150%
Output ripple voltage	< 150mv p-p
AC Input rating	230 V +/- 20%, 50 Hz +/- 10%
Permissible AC Voltage Distortion	20% THDV
Withstand Voltage	I/P - O/P:2kV, I/P - FG:1.5kV, 1 minute
Isolation resistance	100M Ω (min.)@500Vdc
Efficiency	> 88.5 % (excluding battery charging)
MTBF	> 200,000 Hrs (MIL HDBk 217)
Overload Capacity	Up to 110% Amperes for 30 seconds
Remote I/O	3 x Voltage free contacts (50 V DC, 1 Ampere N/C)
Operating Temperature	-20°C - 45 °C (+60°C with de-rating)
Cooling	Natural (large units contain fans)
Physical Size	3RU x 19 Inch x 285 mm deep (excluding battery compartment)
Weight	15 kg (typical)
Colour	S/S or Aluminium / Black front panel
Compliance	AS/NZ3100, AS/NZ3009
Warranty	24 months

Subject to change without notice.

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