ABLE-90 Series, High Power 28VDC Ground Power Units (GPU).

Ultra-Dependable:
ABLE-90 series static GPUs provide the most dependable and cost-effective way of supplying 28VDC all-weather ground power for helicopters, military jets and civil aircraft. A new and very robust and stable design delivers continuous high current 28VDC, with plenty in reserve for repeated engine starts. The 600 amp model can provide a peak current of more than 2000 amps for rapid engine spooling.

Durable, Simple to use:
The heavy steel case is galvanised and then painted for complete all-weather durability. All fasteners are stainless steel and the cabinet has an environmental protection level of IP54 and a maximum ambient operating temperature 45C.

Simple, large On/OFF buttons control the output, easy to see in dim light and with no need to take gloves off. There is a front mounted emergency stop. An input circuit breaker is mounted on the rear of the GPU. In operation ABLE-90 models are near silent.

An illuminated digital panel meter indicates the output voltage and current at all times. Models are available for most global input voltage/frequency combinations, and no input neutral is required.

Cable stowage is available (optionally) on top of the GPU, as well as at the rear of the hand-pull cart model.

Minimal Maintenance with Low Ongoing Cost of Ownership:
The ABLE-90 series models are fully solid-state and require minimal ongoing maintenance. Combine this with a very long design life and the ongoing cost of ownership is amongst the lowest in the industry. As ABLE-90 models are pollution free in operation they qualify for use even in the worlds most pollution conscious airports.

Input and output cables may be ordered in different lengths, according to requirement. Output cables are supplied fitted with a 3-pin aircraft connector.

Technical Data Overleaf:
ABLE 90 - Technical Specifications

INPUT:
- Input Voltage.............................................. 380 to 460VAC, 3-Phase (no neutral)
- Input Frequency......................................... 50 or 60Hz, +/- 6%
- Input Current Harmonics............................ IEC 1000-3-4
- Input Power Factor..................................... >0.98
- Rectifier Inrush........................................... 3 second walk-in, max current < In x 1.0
- Input Connections...................................... 10 metre 4-core cable with market specific connector.
- Input Protection.......................................... Circuit breaker

OUTPUT:
- Output Voltage........................................... 28.5VDC
- Output Voltage Regulation......................... Steady-state: +/-2%
- Ripple ........................................................ 2%
- Ratings: ..................................................... ABLE906 = 600A continuous, 2000A start.
  ABLE904 = 400A continuous, 1600A start.

SECURITY:
- Permissible Overload................................. As above
- Output Overvoltage Cutout........................32V
- Output Undervoltage Cutout..................... 22V
- Thermal Overload..................................... Thermal sensors located in rectifier & Transformer.

ENVIRONMENT & EQUIPMENT:
- Ambient Temperature Range................... -10 to 45 deg C
- Humidity................................................... <90%, non-condensing
- Altitude..................................................... All specifications quoted at < 2000m above sea level
- Acoustic Noise......................................... < 55dBA @ 1m
- Overall Efficiency..................................... 85 to 93% model dependant
- EMC.......................................................... EN55-022B, EN61000-6-2/4, VDE0875 (optional MIL-STD 461)
- Cabinet..................................................... Zinc plated steel, powder coated RAL 7032 or option
- Cabinet Protection..................................... IP54
- Meters...................................................... Digital readout for output Amps, Volts
- Wheels..................................................... 200mm Rubber tyres (hand-pull cart)
- Tow bar (hand-pull cart)............................ 800mm long with pulling handle.
- Stationary Variant.................................... Supplied on 460mm high steel frame for permanent mounting.
- Anti-condensation heater fitted by option.