



### INPUT

- State of the art semiconductor technology (IGBT) Rectifier
- Power Factor Correction (PF=1)
- Up to 90% efficiency
- Low input harmonics (<1.5% THDi), to comply with the strictest regulations @ any load

### OUTPUT

- 800Hz DC-DC
- Converter Galvanic Isolation

### EFFICIENCY

- Up to 90% efficiency
- Green Standby Function - losses: 20 W No load losses: <0.5 kW.



### NORMS AND STANDARDS

<b>AVIATION</b>	<ul style="list-style-type: none"> <li>• <b>ISO 6858</b> - Aircraft ground support electric supplies</li> <li>• <b>SAE ARP 5015</b> - Ground equipment 400 Hz ground power performance requirement</li> </ul>
<b>MILITAR</b>	<ul style="list-style-type: none"> <li>• <b>MIL-STD-704</b> - Aircraft electric power characteristics</li> </ul>
<b>EMC</b>	<ul style="list-style-type: none"> <li>• <b>EN61000-6-4</b> - Electromagnetic compatibility - Generic emission standard</li> <li>• <b>EN61000-6-2</b> - Generic immunity standard</li> </ul>
<b>SAFETY</b>	<ul style="list-style-type: none"> <li>• <b>IEC 60529</b> - Degrees of protection provided by enclosures (IP Code)</li> <li>• <b>IEC 62477-1</b> - Safety requirements for power electronic converter systems and equipment</li> </ul>
<b>ENVIRONMENTAL</b>	<ul style="list-style-type: none"> <li>• Dry heat test (steady state) <b>IEC 60068-2-2</b> subclause 5.3</li> <li>• Damp heat test <b>IEC 60068-2-78</b> subclause 6 Vibration test <b>IEC 60068-2-6</b> subclause 6</li> <li>• Salt mist test <b>IEC 60068-2-52</b> subclause 6</li> <li>• Dust and sand test Test Lc1 of <b>IEC 60068-2-68</b></li> </ul>

### TECHNOLOGY

- Enclosure Protection class up to Ip55
- Enclosure with C5-M coating
- Over/under voltage at output:
- Under voltage <20V (4 sec)
- Over voltage >34V (4 sec)
- Short Circuit <5V at current limit (4 sec)
- Overload capability designed for:
- Power stage 150% - Continuous
- Magnetics 120% - Continuous
- Overload protections set at:
- 1200A - 5 seconds
- 2400A - 5 seconds
- Over temperature protection.

# SPECIFICATIONS

## INPUT

- **4 Wire** | 3 Wire Optional
- **3 phase 400V/415V AC** |  $\pm 10\%$ \*
- **50/60Hz** |  $\pm 10\%$
- **Input current harmonics** | <2% @ Full Load

## OUTPUT

- **Output 28.5VDC** |  $\pm 1\%$ \*
- **Continuous current capability (at 28.5VDC)** | 300A/600A\*
- **Maximum Current Limit (at 28VDC)** | 1200/2400A for up to 5sec
- **Current Limit adjusting steps (from 600A) Voltage** |  $\pm 0.5\%$
- **regulation up to 600A** | 1%
- **Ripple** | <0.5%
- **Dynamic Recovery to 90% VDC** | <40ms
- **Voltage Compensation** | 0-4V up to 600A (remote feedback)
- **Galvanic Isolation** | 800Hz Transformer
- **IGBT + DIODE Rectifier**

\*Other voltages and frequencies available on request

\*Other Electronic Overload limits available on request

## ENVIRONMENTAL CONDITIONS

- **Coolant temperature (max)** | Forced air up to 40°C
- **Ambient temperature (min/max)** | -40°C to +40°C
- **Relative humidity (min/max)** | 0% to 90% without condensation
- **Pollution degree** | 2
- **OVC (Overvoltage Category)** | 3
- **Altitude** | Up to 2000m



## TECHNICAL DRAWING

