# imall

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## SLI 50 INVERTER SERIES, 5000 W



- Compact design: 2U height, 19" rack mountable
- Front panel LCD Display Unit to monitor and set main parameters or LED Unit for visual indication available
- High efficiency: up to 93%
- True sine wave output
- RS485 serial link
- Input reflected ripple current <150 mArms @ maximum load</p>
- Advanced cooling system to optimize fan life and minimize noise
- Parallelable output
- 2-position subrack availability

#### **DESCRIPTION**

The **SLI 50 Series** of "Slim Line" inverters provide an ideal solution for telecom, IT and industrial applications. Due to innovative technology solutions like the patent-pending "Compact Coil", the SLI 50 Series inverters pack 5000 watts of power into a compact package that is 19" rack mountable and only two rack units high. Electrical performance of the SLI Series inverter products is at the top of the market with efficiency that peaks at 93% and a patent-pending control algorithm that compensates current harmonics on the DC side without using bulky and expensive filters. The inverter includes an on-board powerful Digital Signal Processor (DSP) that allows easy programmability of the main parameters on the front panel LCD display and keypad. The SLI Series inverters can be interfaced with RS485.

### **APPLICATIONS**

- TELECOM
- **IT**
- INDUSTRIAL



#### TECHNICAL DATA:

Input Voltage         40         48         60         VD           Input Current         ETSI EN 300 132-2; Ver, 2.12, Clause 4.7         500         VD           OUTPUT         Output Power         5000         W           Output Voltage         200         230         240         VA           Output Voltage         200         230         240         VA           Output Courent         7         50         63         Hz           Frequency         Adjustable         47         50         63         Hz           Efficiency         0.33         1         Frequency         4.5         0         S0           Corest Factor         Lagging or leading         0.33         1         S0         Am           Corest Factor         -4.5         0         50         %         S0         S0           Culput Noise & Ripple         -0.5         +0.5         %         S0         S0         A           Input Overconter Protection         @ 48 VDC         65         VD         VD         S0         A           Input Undervoltage Protection         248 VDC         65         VD         VD         Vorecontage Protection         248 VDC	PARAMETER	DESCRIPTION / CONDITION	MIN	NOM	MAX	UNIT
Input Current         Input Current           Current         ETSI EN 300 132-2; Ver, 2.12, Clause 4.7         Imput Current         Imput Curent         Imput Curent         I	INPUT		40	40	00	
Innush Current OUTPUT         ETSI EN 300 132-2; Ver, 2.12, Clause 4.7         Image: Constraint of the constraint			40	48		
OUTPUT         Output Notes         5000         W           Output Voitage         200         230         240         VA           Output Voitage         200         230         240         VA           Frequency         Adjustable         47         50         63         Hz           Efficiency         @ 40 VDC         5000         Wm         93         %           Overload         @ 40 VDC         5000         Wm         33         1           Crest Factor         Lagging or leading         0.33         1         1         Crest Factor         40.5         +0.5         %           Lead Regulation         -0.5         +0.5         %         0         5         0         7           Output Noise & Ripple         -0.5         +0.5         %         0         7 <td></td> <td></td> <td></td> <td></td> <td>150</td> <td>ADC</td>					150	ADC
Output Power         50000         VV           Output Voltage         200         230         240         VA0           Output Voltage         300         Arr         300         Arr           Efficiency         40         30         Arr         30         Arr           Overload         @ 40 VDC         55000         Wm         33         1           Creat Pactor         Lagging or leading         0.33         1         0         3         1           Creat Pactor		ETSI EN 300 132-2; Ver, 2.12, Clause 4.7				
Output Voltage         7000         VX           Output Current         200         230         240         VA           Output Current         30         Arr         30         Arr           Frequency         Adjustable         47         50         63         My           Overlead         @ 40 VDC         5500         Win         5500         Win           Crest Factor         Lagging or leading         0.33         1         1         1           Crest Factor         Lagging or leading         0.55         +0.65         %         0         %           Line regulation         -0.5         +0.65         %         0         %         0         %           Output Noise & Ripple         -         -         6.5         0         %         %         0         %         %         %         0         %         %         0         150         A         A         150         A         16         16         VD         %         %         VD         %         16         VD         160         A         16         16         16         16         16         VD         16         16         16         16 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Output Voltage         200         230         240         VAI           Output Current	Output Power					
Output Current         30         Arr           Frequency         Adjustable         47         50         63         Hz           Efficiency         Ø 40 VDC         93         %         Valendad         93         %           Overload         Ø 40 VDC         93         %         93         %           Overload         Ø 40 VDC         93         %         93         %           Land Regulation         0.33         1         1         1         31         1           Crest Factor         Lagding or leading         0.33         1         1         33         1         1         1         31         1         1         31         1         1         1         31         1         1         1         1         1         31         1	Output Voltage		200	230		
Frequency         Adjustable         47         50         63         Hz Efficiency           Certificatory         @ 40 VDC         93         % Overload         0.33         1           Load Regulation         0.33         1         1         7           Crest Factor         1.3         3         1           Load Regulation         -0.5         +0.5         %           Output Noise & Ripple         -         -         6         0         %           Output Noise & Ripple         -         -         -         65         0         %           Output Noise & Ripple         - <td></td> <td></td> <td>200</td> <td>200</td> <td></td> <td>Arms</td>			200	200		Arms
Efficiency         93         %           Overload         @ 40 VDC         5500         Wm           Cade Power Factor         Lagging or leading         0.33         1           Crest Factor         0.33         1         3           Line regulation         -0.5         -40.5         %           Line regulation         -6         0         %           Output Noise & Ripple         -6         0         %           Output Noise & Ripple         -70.5         -8.5         0           Output Noise & Ripple         -70.5         -70.5         %           PROTECTION         -70.5         -70.5         %           Input Overvolage Protection         @ 48 VDC         150         A           Input Overvolage Protection         @ 48 VDC         36         VD           Overvoltage Protection         190 VAC ± 2%         -70.5         -70.5           Overcurrent Protection         190 VAC ± 2%         -70.5         -70.5           Overcurrent Protection         30 A factory default to 15 A selectable with 12T curve (see spec.)         -70.5           Overcurrent Protection         30 A factory default to 15 A selectable with 12T curve (see spec.)         -70.50.5           Overcurrent Protecti		Adjustable	47	50		
Overlaad         (@.40 VDC         5500         Wm           Load Power Factor         Lagging or leading         0.33         1         3           Load Regulation         -0.5         +0.5         +0.5         %           Line regulation         -0.5         +0.5         %         %           Line regulation         -6         0         %         %           Dutput Noise & Ripple         -0         -8,5         0         %           PROTECTION         -8,5         0          A           Input Overcurrent Protection         @ 48 VDC         65         VD           Overvoltage Protection         @ 48 VDC         36         VD           Overvoltage Protection         260 VAC ± 2%         -         -         -           Stafet/ Overcurrent Protection         30 A (factory default) to 15 A selectable with 12T curve (see spec.)         -         -           Overcurrent Protection         30 A (factory default) to 15 A selectable with 12T curve (see spec.)         -         -           Overcurrent Protection         30 A (factory default) to 15 A selectable with 12T curve (see spec.)         -         -           Overcurrent Protection         30 A (factory default) to 15 A selectable with 12T curve (see spec.)         -				00		
Lad Power Fador         Lagging or leading         0.33         1           Crest Factor         0.33         1           Carles Factor         0.5         +0.5         %           Line regulation         -0.5         +0.5         %           Line regulation         -0.5         +0.5         %           Output Noise & Ripple         -         -         -         %           Total Harmonic Distortion         On Resistive Load         <		@ 40 VDC				Wmin
Crest Factor         State         State <tt>State         State</tt>			0.33			••••••
Lad Regulation         -0.5         +0.5         %           Line regulation         -6         0         %           Output Noise & Ripple         -         -         -           Total Harmonic Distortion         On Resistive Load         <			0.00			
Line regulation       -6       0       %         Output Noise & Ripple       -8.5       0       -8.5       0         Total Harmonic Distortion       On Resistive Load       <<0.5			-0.5			%
Output Noise & Ripple     -8,5     0       Output Noise & Ripple     On Resistive Load     <0.5						
Total Harmonic Distortion       On Resistive Load       <0.5	Line regulation				-	,,
PROTECTION       Imput Overcurrent Protection       Imput AV provide Protection       Imput Overcurrent Protection       Imput Over	Output Noise & Ripple					
Input Overcurrent Protection       @ 48 VDC       150       A         Input Overvoltage Protection       @ 48 VDC       65       VDD         Overvoltage Protection       260 VAC ± 2%       36       VDD         Overvoltage Protection       195 VAC ± 2%       36       VDD         Stafety Overcurrent Protection       By safety Use: 230 VAC Models: 30A       36       VDD         Stafety Overcurrent Protection       By safety Use: 230 VAC Models: 30A       36       VDD         Overcurrent Protection       By safety Use: 230 VAC Models: 30A       30       16       Voercurrent Protection         Overcurrent Protection       Table 57 °C and Tim > 110 °C (Visual indication 5 °C before shutdown)       The restore mode of each protection can be individually selected to "latch" or "auto-restart".         INTERFACE & CONTROL SIGNALS       IEX 128 pixel graphic with keypad used for monitoring and setting the main parameters.       LED Indicators for both units: GREEN - Power ON         LED Unit       Standard for visual indication of the main parameters.       VELLOW - Fan Failure, Addresses         SAFETY, REGULATORY AND EMC SPECIFICATIONS       Agency Approvals       IEC 60950-1: 2001, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;         Insulation       Primary-to-Ground:       500       VDI         Signal-to-Ground:       500		On Resistive Load			<0.5	%
Input Overvoltage Protection         @ 48 VDC         65         VD           Input Undervoltage Protection         @ 48 VDC         36         VD           Overvoltage Protection         260 VAC ± 2%         36         VD           Undervoltage Protection         195 VAC ± 2%         36         VD           Safety Overcurrent Protection         Hy safety fuse; 230 VAC Models: 30A         36         VD           Sont-Circuit Protection         Yes (pk 56A ± 5% for 1 sec         30         4 (factory default) to 15 A selectable with 12T curve (see spec.)           Overcurrent Protection         Tamb > 67 °C and Tint > 110 °C (Visual indication 5°C before shutdown)         Tamb > 67 °C and Tint > 110 °C (Visual indication second to "auto-restart".           INTERFACE & CONTROL SIGNALS         ILED Indicators for both units: and setting the main parameters.         GREEN - Power ON           LED Unit         128 x 128 pixel graphic with keypad used for monitoring and setting the main parameters.         IEC Indicators for both units: GREEN - Power ON           Standard for visual indication of the main parameters.         VELLOW. Fan Failure, Addresses         RED           General Alarm Signal         By a form C signal relay         Standard for visual indication, CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;         S000 VDI           Insulation         Primary-to-Secondary: Primary-to-Secondary: Primary-to						
Input Undervoltage Protection       @ 48 VDC       36       VDI         Overvoltage Protection       260 VAC ± 2%       1       1         Undervoltage Protection       195 VAC ± 2%       1       1         Safety Overcurrent Protection       Yes; Jpk 95A ± 5% for 1 sec       1       1         Overcurrent Protection       Yes; Jpk 95A ± 5% for 1 sec       1       1       1         Overcurrent Protection       Yes; Jpk 95A ± 5% for 1 sec       1 </td <td>Input Overcurrent Protection</td> <td></td> <td></td> <td></td> <td></td> <td>Α</td>	Input Overcurrent Protection					Α
Overvoltage Protection       260 VAC ± 2%       Important State         Undervoltage Protection       195 VAC ± 2%       Important State         Statey Overcurrent Protection       By safely Use; 230 VAC Models: 30A       Important State         Short-Circuit Protection       30 A (factory default) to 15 A selectable with I2T curve (see spec.)       Important State         Overcurrent Protection       Tamb > 67 °C and Tint > 110 °C (Visual indication 5 °C before shutdown)       Protection Restore Modes         Protection Restore Modes       The restore mode of each protection can be individually selected to "latch" or "auto-restart".         INTERFACE & CONTROL SIGNAL S       LED Indicators for both units:         LED Unit       128 x 128 pixel graphic with keypad used for monitoring and setting the main parameters.       LED Indicators for both units:         General Alarm Signal       By a form C signal relay       YELLOW - Fan Failure, Addresses         SAFETY, REGULATORY AND EMC SPECIFICATIONS       Report Approvals       LEC 60950-1: 2001, 1st edition; EN 60950-1: 2001 + A11: 2004; UL 60950-1, 1st edition; CAN/CSA-C22: No.60950-1:03, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approvals         Insulation       Primary-to-Ground:       500 VDI         Signal-to-Ground:       500 VDI         Signal-to-Ground:       500 VDI         Signal-to-Ground:       500 VDI         Signa						VDC
Undervoltage Protection       195 VAC ± 2%       Image: Constraint of the section of the sec			36			VDC
Safety Overcurrent Protection       By safety fuse; 230 VAC Models: 30A       Image: Constraint Protection         Short-Circuit Protection       30 A (factory default) to 15 A selectable with I2T curve (see spec.)       Image: Constraint Protection         Overcurrent Protection       Tamb > 67 °C and Tint > 110 °C (Visual indication 5 °C before shutdown)       Image: Constraint Protection         Voertemperature Protection       Tamb > 67 °C and Tint > 110 °C (Visual indication 5 °C before shutdown)       Image: Constraint Protection         Voertemperature Protection       Tamb > 67 °C and Tint > 110 °C (Visual indication 5 °C before shutdown)       Image: Constraint Protection         Voertemperature Protection       Tamb > 67 °C and Tint > 110 °C (Visual indication 5 °C before shutdown)       Image: Constraint Protection         Voertemperature Protection       Tamb > 67 °C and Tint > 110 °C (Visual indication 5 °C before shutdown)       Image: Constraint Protection         Voertemperature       RE CONTROL SIGNALS       Image: Constraint Protection       Image: Constraint Protection         LED Unit       128 x 128 pixel graphic with keypad used for monitoring and setting the main parameters.       LED Indicators for both units:         General Alarm Signal       By a form C signal relay       SAFETY, REGULATORY AND EMC SPECIFICATIONS       REC overtemperature, Faulty Conditic Secondary:         Agency Approvals       IEC 60950-1 · 03, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Repo						
Short-Circuit Protection       Yes; lpk 95A ± 5% for 1 sec       Image: Short-Circuit Protection       30 A (factory default) to 15 A selectable with I2T curve (see spec.)         Overtemperature Protection       Tamb > 67 °C and Tint > 110 °C (Visual indication 5 °C before shutdown)         Protection Restore Modes       The restore mode of each protection can be individually selected to "latch" or "auto-restart".         INTERFACE & CONTROL SIGNALS       LED Indicators for both units: and setting the main parameters.       LED Indicators for both units: GREEN - Power ON         LED Unit       Standard for visual indication of the main parameters       YELLOW - Fan Failure, Addresses RED - Overtemperature, Faulty Conditic General Alarm Signal         By a form C signal relay       SAFETY, REGULATORY AND EMC SPECIFICATIONS         Agency Approvals       IEC 60950-1: 2001, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;         Insulation       Primary-to-Ground: Signal-to-Ground:       3000       Vrm         EMC       Emission: EN 61000-6-4: 2001; EN 55022: 1998 A1:2000 + A2:2003 (Class B) Immunity: EN 61000-6-4: 2004; Crit. A); EN 61000-4-3: 1996 + A1:2001 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-6-4: 2094 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-6-4: 1993 + A1:2001 (Crit. A); EN 61000-4-3: 1996 + A1:2001 (Crit. A); A); EN 61000-4-4: 1993 + A1:2001 (Crit. A); EN 61000-4-3: 1996 + A1:2001 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-6-4: 2001; Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-4: 1993 + A1:2001 (Crit. A); EN 61000-4-3: 1996 + A1						
Overcurrent Protection         30 A (factory default) to 15 A selectable with I2T curve (see spec.)           Overtemperature Protection         Tamb > 67 °C and Tint > 110 °C (Visual indication 5 °C before shutdown)           Protection Restore Modes         The restore mode of each protection can be individually selected to "latch" or "auto-restart".           INTERFACE & CONTROL SIGNALS         LED Unit         128 x 128 pixel graphic with keypad used for monitoring and setting the main parameters.         LED Indicators for both units: GREEN - Power ON YELLOW - Fan Failure, Addresses           LED Unit         Standard for visual indication of the main parameters.         RED - Overtemperature, Faulty Conditic           SAFETY, REGULATORY AND EMC SPECIFICATIONS         RED - Overtemperature, Faulty Condition; CAN/CSA-C22.1, No.60950-1: 2001, 1st edition; EN 60950-1: 2001 + A11: 2004; UL 60950-1, 1st edition; CAN/CSA-C22.1, No.60950-1:03, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;           Insulation         Primary-to-Secondary: Primary-to-Ground: Secondary-to-Ground: Seco						
Overtemperature Protection         Tamb > 67 °C and Tint > 110 °C (Visual indication 5 °C before shutdown)           Protection Restore Modes         The restore mode of each protection can be individually selected to "latch" or "auto-restart".           INTERFACE & CONTROL SIGNALS         LCD Display Unit         128 x 128 pixel graphic with keypad used for monitoring and setting the main parameters.         LED Indicators for both units: GREEN - Power ON YELLOW - Fan Failure, Addresses RED - Overtemperature, Faulty Condition           General Alarm Signal         By a form C signal relay         Power ON           SAFETY, REGULATORY AND EMC SPECIFICATIONS         RED 0050-1: 2001 + A11: 2004; UL 60950-1, 1st edition; CAN/CSA-C22.: No. 60950-1:03, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;           Insulation         Primary-to-Secondary: Primary-to-Ground: Signal-to-Ground: Signal to 41:2004 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-4: 2001 (Crit. A); EN 61000-4-4: 2001 (Crit. A); EN 61000-4-4: Signal to 41:2004 (Crit. A); EN 61000-4-4: Sig						
Protection Restore Modes       The restore mode of each protection can be individually selected to "latch" or "auto-restart".         INTERFACE & CONTROL SIGNALS       I28 x 128 pixel graphic with keypad used for monitoring and setting the main parameters.       LED Indicators for both units: GREEN - Power ON YELLOW - Fan Failure, Addresses RED - Overtemperature, Faulty Condition GREEN - Power ON YELLOW - Fan Failure, Addresses RED - Overtemperature, Faulty Condition SAFETY, REGULATORY AND EMC SPECIFICATIONS         Agency Approvals       IEC 60950-1: 2001, 1st edition; EN 60950-1: 2001 + A11: 2004; UL 60950-1, 1st edition; CAN/CSA-C22.: No.60950-1-03, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;         Insulation       Primary-to-Secondary: Primary-to-Ground: Signal-to-Ground: Signal to B1000-6-4: 2009; EN 61000-4-2: 1995 + A1:1998 + A2: 2001 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-4: 1906 + A1:2001 (Crit. A); EN 61000-4-4: 2004 (Crit. A); ETSI EN 300-132-2 (Crit. A)         ENVIRONMENTAL SPECIFICATIONS       I3000 ft         Altitude       Operating: Non-Operating: Non-Operating: 150 W/ °C; +55 °C to +65 °C       -25 +55 °C         Operating: Opere: Cwithin rated load       Imminity:	Overcurrent Protection					
INTERFACE & CONTROL SIGNALS         LCD Display Unit       128 x 128 pixel graphic with keypad used for monitoring and setting the main parameters.       LED Indicators for both units: GREEN - Power ON YELLOW - Fan Failure, Addresses RED - Overtemperature, Faulty Condition YELLOW - Fan Failure, Addresses RED - Overtemperature, Faulty Condition YELLOW - Fan Failure, Addresses RED - Overtemperature, Faulty Condition SAFETY, REGULATORY AND EMC SPECIFICATIONS         Agency Approvals       IEC 60950-1: 2001, 1st edition; EN 60950-1: 2001 + A11: 2004; UL 60950-1, 1st edition; CAN/CSA-C22. No 60950-1-03, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;         Insulation       Primary-to-Secondary: Primary-to-Ground: Secondar	Overtemperature Protection					
LCD Display Unit       128 x 128 pixel graphic with keypad used for monitoring and setting the main parameters.       LED Indicators for both units:         General Alarm Signal       By a form C signal relay       YELLOW - Fan Failure, Addresses         SAFETY, REGULATORY AND EMC SPECIFICATIONS       RED - Overtemperature, Faulty Condition, CAN/CSA-C22.         No.60950-1-03, 1st edition; EN 60950-1: 2001 + A11: 2004; UL 60950-1, 1st edition; CAN/CSA-C22.       No.60950-1-03, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;         Insulation       Primary-to-Secondary:       3000       Vrm         Primary-to-Ground:       Songal-to-Ground:       500       VD         Signal-to-Ground:       Signal-to-Ground:       500       VD         EMC       Emission: EN 61000-6-4: 2001; EN 55022: 1998 A1:2000 + A2:2003 (Class B)       Immunity: EN 61000-4-4: 2004 (Crit. A); EN 61000-4-5: 2006 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-4: 2005 (Crit. A); EN 61000-4-4: 2006 (Crit. A); EN 61000-4-4: 2001 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-4: 2005 (Crit. A); EN 61000-4-4: 2006 (Crit. A); EN 61000-4-4: 2001 (Crit. A); EN 61000-4-5: 2006 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-4: 2005 (Crit. A); EN 61000-4-4: 2005 (Crit. A); EN 61000-4-4: 2005 (Crit. A); EN 61000-4-4: 2006 (Crit. A); EN 61000-4-6: 1996 + A1:2001 (Crit. A)	Protection Restore Modes	The restore mode of each protection can be individually se	lected to "latch" or	"auto-resta	art".	
and setting the main parameters.       GREEN - Power ON         LED Unit       Standard for visual indication of the main parameters       YELLOW - Fan Failure, Addresses         General Alarm Signal       By a form C signal relay       - Overtemperature, Faulty Condition         SAFETY, REGULATORY AND EMC SPECIFICATIONS       - Overtemperature, Faulty Condition, CAN/CSA-C22.4         Agency Approvals       IEC 60950-1: 2001, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;         Insulation       Primary-to-Secondary: Primary-to-Ground:       3000       Vrm         Signal-to-Ground:       500       VDI         Secondary-to-Ground:       500       VDI         Signal-to-Ground:       500       VDI         EMC       Emission: EN 61000-6-4: 2001; EN 55022: 1998 A1:2000 + A2:2003 (Class B) Immunity: EN 61000-4-2: 1999; EN 61000-4-2: 1995 + A1:1998 + A2: 2001 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-6: 1996 + A1:2001 (Cr	<b>INTERFACE &amp; CONTROL SI</b>	GNALS				
LED Unit       Standard for visual indication of the main parameters       YELLOW - Fan Failure, Addresses RED       - Overtemperature, Faulty Condition Overtemperature, Faulty Condition SAFETY, REGULATORY AND EMC SPECIFICATIONS         Agency Approvals       IEC 60950-1: 2001, 1st edition; EN 60950-1: 2001 + A11: 2004; UL 60950-1, 1st edition; CAN/CSA-C22. No.60950-1-03, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;         Insulation       Primary-to-Secondary: Primary-to-Ground: Secondary-to-Ground: Signal-to-	LCD Display Unit				ts:	
RED         Overtemperature, Faulty Condition           General Alarm Signal         By a form C signal relay           SAFETY, REGULATORY AND EMC SPECIFICATIONS           Agency Approvals         IEC 60950-1: 2001, 1st edition; EN 60950-1: 2001 + A11: 2004; UL 60950-1, 1st edition; CAN/CSA-C22.4 No.60950-1-03, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;           Insulation         Primary-to-Secondary: Primary-to-Ground: Secondary-to-Groun						
General Alarm Signal         By a form C signal relay           SAFETY, REGULATORY AND EMC SPECIFICATIONS           Agency Approvals         IEC 60950-1: 2001, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;           Insulation         Primary-to-Secondary: Primary-to-Ground: Secondary-to-Ground: Signal-to-Ground: Signal-to-Ground:         3000         Vrm 500           EMC         Emission: EN 61000-6-4: 2001; EN 55022: 1998 A1:2000 + A2:2003 (Class B) Immunity: EN 61000-6-2: 1999; EN 61000-4-2: 1995 + A1:1998 + A2: 2001 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-5: 2006 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit A); EN 61000-4-8: 1993 + A1:2001 (Crit. A); ETSI EN 300-132-2 (Crit. A)           ENVIRONMENTAL SPECIFICATIONS         Attitude         Operating: Non-Operating:         13000 40000         ft           Operating Temperature         @ full load; Power derating: 150 W/ °C; +55 °C to +65 °C         -25         +55         °C           Output Voltage Temperature         @ full load; Power derating: 150 W/ °C; +55 °C to +65 °C         -25         +55         °C           Humidity         0 – 90 %, non-condensing         0.02 % per °C within rated load         0         9	LED Unit					ondition
SAFETY, REGULATORY AND EMC SPECIFICATIONS         Agency Approvals       IEC 60950-1: 2001, 1st edition; EN 60950-1: 2001 + A11: 2004; UL 60950-1, 1st edition; CAN/CSA-C22.2 No.60950-1-03, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;         Insulation       Primary-to-Secondary: Primary-to-Ground: Secondary-to-Ground: Signal-to-Ground:       3000       Vrm         EMC       Emission: EN 61000-6-4: 2001; EN 55022: 1998 A1:2000 + A2:2003 (Class B) Immunity: EN 61000-6-2: 1999; EN 61000-4-2: 1995 + A1:1998 + A2: 2001 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-5: 2006 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit. A); EN 61000-4-8: 1993 + A1:2001 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit. A); EN 61000-4-8: 1993 + A1:2001 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit. A); EN 61000-4-8: 1993 + A1:2001 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit. A); EN 61000-4-8: 1993 + A1:2001 (Crit. A); ETSI EN 300-132-2 (Crit. A)         ENVIRONMENTAL SPECIFICATIONS       Attitude       Operating: Non-Operating: Non-Operating:       13000 (40000       ft         Operating Temperature       @ full load; Power derating: 150 W/ °C; +55 °C to +65 °C       -25       +55       °C         Humidity       0 – 90 %, non-condensing       -40       +85       °C         Output Voltage Temp. Coefficient       0.02 % per °C within rated load       -40       +85       °C	General Alarm Signal	By a form C signal relay	INED - Oven	emperatur	e, rauny o	onution
Agency Approvals         IEC 60950-1: 2001, 1st edition; EN 60950-1: 2001 + A11: 2004; UL 60950-1, 1st edition; CAN/CSA-C22.2 No.60950-1-03, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;           Insulation         Primary-to-Secondary: Primary-to-Ground: Secondary-to-Ground: Signal-to-Ground: Signal-to-Ground: Mission: EN 61000-64: 2001; EN 55022: 1998 A1:2000 + A2:2003 (Class B) Immunity: EN 61000-6-2: 1999; EN 61000-4-2: 1995 + A1:1998 + A2: 2001 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-6-2: 1999; EN 61000-4-5: 2006 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-5: 2006 (Crit. A); EN 61000-4-6: 1996 + A1:2001 (Crit A); EN 61000-4-4: 2004 (Crit. A); EN 51000-4-5: 2006 (Crit. A); EN 61000-4-6: 1996 + A1:2001 (Crit A); EN 61000-4-4: 2004 (Crit. A); EN 51000-4-5: 2006 (Crit. A); EN 61000-4-6: 1996 + A1:2001 (Crit A); EN 61000-4-4: 2004 (Crit. A); EN 5100-132-2 (Crit. A)           ENVIRONMENTAL SPECIFICATIONS         Importance						
No.60950-1-03, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;           Insulation         Primary-to-Secondary: Primary-to-Ground: Secondary-to-Ground: Signal-to-Ground: Signal-to-Ground: Signal-to-Ground: Signal-to-Ground: Secondary-to-Ground: Signal-to-Ground-to-Si Signal-to-Ground: Signal-to-Ground-to: Signal-to-G			2004.11 60050-1	1st adition		C22.2
Insulation         Primary-to-Secondary: Primary-to-Ground: Secondary-to-Ground: Signal-to-Ground:         3000         Vm           EMC         Emission: EN 61000-6-4: 2001; EN 55022: 1998 A1:2000 + A2:2003 (Class B) Immunity: EN 61000-6-2: 1999; EN 61000-4-2: 1995 + A1:1998 + A2: 2001 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-5: 2006 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit A); EN 61000-4-8: 1993 + A1:2001 (Crit. A); ETSI EN 300-132-2 (Crit. A)           ENVIRONMENTAL SPECIFICATIONS         Vintore and the second and the se						
Primary-to-Ground: Secondary-to-Ground: Signal-to-Ground:         500         VDU           EMC         Emission: EN 61000-6-4: 2001; EN 55022: 1998 A1:2000 + A2:2003 (Class B) Immunity: EN 61000-6-2: 1999; EN 61000-4-2: 1995 + A1:1998 + A2: 2001 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-5: 2006 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit A); EN 61000-4-8: 1993 + A1:2001 (Crit. A); ETSI EN 300-132-2 (Crit. A)           ENVIRONMENTAL SPECIFICATIONS         Immorphilic         Immorphilic<		Approval;				
Secondary-to-Ground:         1500         Vm           Signal-to-Ground:         500         VD0           EMC         Emission: EN 61000-6-4: 2001; EN 55022: 1998 A1:2000 + A2:2003 (Class B) Immunity: EN 61000-6-2: 1999; EN 61000-4-2: 1995 + A1:1998 + A2: 2001 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-5: 2006 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit. A); EN 61000-4-8: 1993 + A1:2001 (Crit. A); ETSI EN 300-132-2 (Crit. A)           ENVIRONMENTAL SPECIFICATIONS         Operating: Non-Operating:         13000 40000         ft           Operating Temperature         @ full load; Power derating: 150 W/ °C; +55 °C to +65 °C         -25         +55         °C           Storage Temperature         -40         +85         °C           Humidity         0 – 90 %, non-condensing              Output Voltage Temp. Coefficient         0.02 % per °C within rated load	Insulation					Vrms
Signal-to-Ground:         500         VD0           EMC         Emission: EN 61000-6-4: 2001; EN 55022: 1998 A1:2000 + A2:2003 (Class B) Immunity: EN 61000-6-2: 1999; EN 61000-4-2: 1995 + A1:1998 + A2: 2001 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-5: 2006 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit A); EN 61000-4-8: 1993 + A1:2001 (Crit. A); ETSI EN 300-132-2 (Crit. A)           ENVIRONMENTAL SPECIFICATIONS         Operating: Non-Operating:         13000 40000         ft           Operating Temperature         @ full load; Power derating: 150 W/ °C; +55 °C to +65 °C         -25         +55         °C           Storage Temperature         -40         +85         °C           Humidity         0 – 90 %, non-condensing              Output Voltage Temp. Coefficient         0.02 % per °C within rated load						VDC
EMC         Emission: EN 61000-6-4: 2001; EN 55022: 1998 A1:2000 + A2:2003 (Class B) Immunity: EN 61000-6-2: 1999; EN 61000-4-2: 1995 + A1:1998 + A2: 2001 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-5: 2006 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit A); EN 61000-4-8: 1993 + A1:2001 (Crit. A); ETSI EN 300-132-2 (Crit. A)           ENVIRONMENTAL SPECIFICATIONS         Operating: Non-Operating: Non-Operating:         13000 40000         ft           Operating Temperature         @ full load; Power derating: 150 W/ °C; +55 °C to +65 °C         -25         +55         °C           Storage Temperature         -90 %, non-condensing         0         -90         Non-condensing         0 <th< td=""><td></td><td></td><td></td><td></td><td>Vrms</td></th<>						Vrms
Immunity: EN 61000-6-2: 1999; EN 61000-4-2: 1995 + A1:1998 + A2: 2001 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit. A); EN 61000-4-8: 1993 + A1:2001 (Crit. A); ETSI EN 300-132-2 (Crit. A)           ENVIRONMENTAL SPECIFICATIONS           Altitude         Operating: Non-Operating:         13000 40000         ft           Operating Temperature         @ full load; Power derating: 150 W/ °C; +55 °C to +65 °C         -25         +55         °C           Storage Temperature         -40         +85         °C           Humidity         0 – 90 %, non-condensing         00         00         00           MECHANICAL SPECIFICATIONS         0.02 % per °C within rated load         0.02 % per °C % per °C % per %					500	VDC
(Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-5: 2006 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit. A); EN 6100-4-6. 1996 + A1:2001 (Crit. A); EN 6100 (Crit. A); EN 610	EMC					
A); EN 61000-4-8: 1993 + A1:2001 (Crit. A); ETSI EN 300-132-2 (Crit. A)         ENVIRONMENTAL SPECIFICATIONS         Altitude       Operating: Non-Operating:       13000 40000       ft         Operating Temperature       @ full load; Power derating: 150 W/ °C; +55 °C to +65 °C       -25       +55       °C         Storage Temperature       -40       +85       °C         Humidity       0 – 90 %, non-condensing       0       0         Output Voltage Temp. Coefficient       0.02 % per °C within rated load       0       0         MECHANICAL SPECIFICATIONS       ECHANICAL SPECIFICATIONS       EXEMPTION       EXEMPTION						
ENVIRONMENTAL SPECIFICATIONS         Altitude       Operating: Non-Operating:       13000 40000       ft         Operating Temperature       @ full load; Power derating: 150 W/ °C; +55 °C to +65 °C       -25       +55       °C         Storage Temperature       -40       +85       °C         Humidity       0 – 90 %, non-condensing       0       0         Output Voltage Temp. Coefficient       0.02 % per °C within rated load       0       0				00-4-6. 199	96 + A1:200	1 (Crit.
Altitude       Operating: Non-Operating:       13000 40000       ft         Operating Temperature       @ full load; Power derating: 150 W/ °C; +55 °C to +65 °C       -25       +55       °C         Storage Temperature       -40       +85       °C         Humidity       0 – 90 %, non-condensing            Output Voltage Temp. Coefficient       0.02 % per °C within rated load            MECHANICAL SPECIFICATIONS			132-2 (Crit. A)			
Non-Operating:       40000       II         Operating Temperature       @ full load; Power derating: 150 W/ °C; +55 °C to +65 °C       -25       +55       °C         Storage Temperature       -40       +85       °C         Humidity       0 – 90 %, non-condensing       -40       +85       °C         Output Voltage Temp. Coefficient       0.02 % per °C within rated load       -40       -40       -40         MECHANICAL SPECIFICATIONS       -40       -40       -40       -40       -40       -40						
Operating Temperature       @ full load; Power derating: 150 W/ °C; +55 °C to +65 °C       -25       +55       °C         Storage Temperature       -40       +85       °C         Humidity       0 – 90 %, non-condensing       -40       +85       °C         Output Voltage Temp. Coefficient       0.02 % per °C within rated load       -40       -40       -40         MECHANICAL SPECIFICATIONS       -40       -40       -40       -40       -40       -40	Altitude					ft
Storage Temperature       -40       +85       °C         Humidity       0 – 90 %, non-condensing            Output Voltage Temp. Coefficient       0.02 % per °C within rated load            MECHANICAL SPECIFICATIONS	Operating Temperature		-25			°C
Humidity       0 – 90 %, non-condensing       Image: Condensing for the second						0°C
Output Voltage Temp. Coefficient 0.02 % per °C within rated load  MECHANICAL SPECIFICATIONS		0 – 90 % non-condensing	-+0		-00	
MECHANICAL SPECIFICATIONS						
	Dimensions (W x H x D)	482 x 88 x 400 mm				
	Weight					

NUCLEAR AND MEDICAL APPLICATIONS - Power-One products are not designed, intended for use in, or authorized for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems without the express written consent of the respective divisional president of Power-One, Inc.

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DATA SHEET