

# LPX Series Next Generation Low Profile Power Supplies

## LPX-10, LPX-14, LPX-18, LPX-25



The LPX Series is the next generation of DuraComm's popular and reliable LP desktop power supply. We enhanced the electronic filtering and noise shielding, added auto ranging AC input, and adjustable DC output, all while maintaining the rugged 7 inch standard design. The improved efficiency meets DoE level VI green energy standards.



|   | LPX-10  | LPX-14 | LPX-18                | LPX-25 |
|---|---|--------|-----------------------|--------|
| Input Voltage (Nominal)                               | 90-264 VAC or 127-370 VDC                                   |        |                       |        |
| Output voltage  | 13.8V   |        |                       |        |
| OUTPUT RIPPLE & NOISE<br>(ON FULL LOAD, PEAK TO PEAK) | 150 mV  |        |                       |        |
| OUTPUT CURRENT, CONTINUOUS                            | 8.7A  | 13A    | 17.4A                 | 26A    |
| CURRENT LIMIT   | 10.9A   | 16.3A  | 21.7A                 | 32.6A  |
| COOLING   | Convection Cooled   |        |                       |        |
| PROTECTIONS   | Overload, over voltage, and over temperature                |        |                       |        |
| ENVIRONMENTAL TEMPERATURE RANGE                       | -30 to +70 °C -22 to +158 °F                                |        |                       | +158°F |
| AC INPUT  | Detachable power cord C/W NEMA 5-15P plug                   |        |                       |        |
| DC OUTPUT   | Terminals w/ recessed hole DIA. 0.16" (4 mm) with set screw |        |                       |        |
| DIMENSIONS, (L x W x H) Shipping                      | 280 x 230 x 60 mm 11.02 x 9.06 x                            |        | 9.06 x 2.36in         |        |
| DIMENSIONS, (L x W x H) Product                       | 192 x 178 x 45 mm   |        | 7.56 x 7.00 x 1.77 in |        |
| WEIGHT  | 1 KG  |        | 2.21 LB               |        |

\*NOTE: Specifications are subject to change without notice

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## Section 1 | Important Safety Instructions

# THESE INSTRUCTIONS ARE INTENDED FOR USE BY A TECHNICIAN FAMILIAR WITH ELECTRONIC PRODUCTS.

The individual user should take care to determine prior to use or installation whether this device is suitable, adequate, or safe for the use intended. Since individual applications are subject to great variation, DuraComm makes no representation or warranty as to the merchantability, suitability or fitness of these units for any specific application.

The DuraComm series of desk top power supplies are accurately regulated to maintain output voltage from no load to full load. Slightly above the rated output load, the current limiting circuit begins to act, reducing the output voltage to prevent unit overload damage.

Precision regulated power supplies operate internally from voltages in excess of 13.8V. In rare cases, voltage spikes or transients on the AC power line, or overheating, may cause a component failure in the power supply. If this failure results in over voltage at the output terminals, the electronic over voltage feature will operate. Overload of the output will cause the over current feature to operate. In either case, the cause must be determined and corrected.

# FAILURES REQUIRE INVESTIGATION AS TO THE CAUSE AND/ OR REPAIR OF THE UNIT.

# THIS UNIT DOES NOT HAVE ANY USER SERVICEABLE PARTS. SERVICE AND REPAIR MUST BE REFERRED TO QUALIFIED PERSONNEL

PRECAUTIONS: DO NOT block any openings in the case or operate the unit in a hot, enclosed environment or compartment. Be sure adequate ventilation is provided since heat build-up will shorten component life. NOTE: Most audio and radio equipment draws much less average current than the peak demand.

If the unit stops working, check the 12 volt connections for tightness. If the unit fails again or repeatedly, have the unit checked by a qualified technician.

#### HAZARDOUS VOLTAGES EXIST INSIDE THE UNIT. THERE ARE NO USER SERVICEABLE PARTS INSIDE. DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE.

### Section 2 | Product Overview

The DuraComm LPX Series of power supplies are UL/CUL listed. They are manufactured in accordance with ISO 9001 quality assurance standards. These power supplies convert 90~264 Volt 50/60 Hz AC power to low noise and ripple, regulated 13.8 volt DC output.

DuraComm's power supplies are protected against inadvertent shorts and overloads by an electronic output current limiting circuit. This current limiting circuit reduces the output limiting to a very low and safe value until the overload is removed from the power supply. As soon as the overload is removed, the output will be automatically restored.

Additionally the power supplies incorporate an over temperature feature to protect against undesired component failure should operation in excessive environmental temperatures occur.

DuraComm LPX series power supplies are compatible with all LPH radio hoods. DuraComm LPX series power supplies may be configured for battery backup & charging applications with the addition of the LPBC-25.

See <u>www.duracomm.com</u> for more information.

### **Section 3 | Installation**

Connect your 12 volt DC device to the red (positive) and black (negative) output terminals. Be certain you connect positive to positive (red) and negative to negative (black). Insert the AC plug into an AC outlet of the proper voltage.

### **Section 4 | Operation**

Press the ON/OFF switch to the ON position and observe that the indicator light illuminates. If the indicator light fails to light, recheck the equipment installation, hook-up polarity, and the AC outlet.

| Section 5 | Specifications |
|-----------|----------------|
|-----------|----------------|

|                 |  |  | LPX-10   | LPX-14   | LPX-18   | LPX-25  |  |
|-----------------|--|--|--|--|--|---|--|
| Output          | DC Voltage   |  |  | 13.  |  |   |  |
|                 | Rated Curren   | -  | 8.7A   | 13A  | 17.4A  | 26A   |  |
|                 | Current  | Rated  | 0 ~ 8.7A   | 0~13A  | 0 ~ 17.4A  | 0 ~ 26A   |  |
|                 |  | Peak   | 10.9 A   | 16.3A  | 21.7A  | 32.6A   |  |
|                 | Wattage  | Rated  | 120W   | 179.4W   | 240.1W   | 359W  |  |
|                 |  | Peak   | 150.4W   | 225W   | 300W   | 450W  |  |
|                 | Ripple & Noise (Max)   |  |  | 150m   |  |   |  |
|                 | Voltage ADJ.   |  | 11.5 ~ 15V   | 11.5 ~ 15V   | 11.5 ~ 15V   | 11.5 ~ 15V  |  |
|                 | Voltage Tolerance<br>Line Regulation   |  | ±1.0%  | ±1.0%  | ±1.0%  | ±1.0%   |  |
|                 |  |  | ±0.5%  | ±0.5%  | ±0.5%  | ±0.5%   |  |
|                 | Load Regulat   | ion  | ±2.0%  | ±2.0%  | ±2.0%  | ±2.0%   |  |
|                 | Setup, Rise Time   |  | 1000ms, 100ms at full load   |  |  |   |  |
|                 | Hold Up Time*  |  | 20ms at full load  |  |  |   |  |
| Input           | Voltage Rang   | e  | 90 ~ 264VAC 127 ~ 370VDC   |  |  |   |  |
|                 |  |  |  |  |  |   |  |
|                 | Frequency Range Power Factor *   |  | 47 ~ 63Hz<br>PF>0.98/115VAC, PF>0.95/230VAC at full load   |  |  |   |  |
|                 | Efficiency *   |  | 89.5%  | 91%  | 95/250VAC at full load<br>91%  | 91%   |  |
|                 |  |  | 69.5%  |  |  | 91%   |  |
|                 | AC Current*  |  | 65.4   | 1.25A/115VAC   | 0.63A/230VAC   | <b>CO 1</b>   |  |
|                 | Inrush Curren  |  | 65A  | 70A  | 75A  | 60A   |  |
|                 | Cold Start at<br>Leakage Curr  |  | l  | -2 Em- 4 /   | 240\/AC  |   |  |
|                 |  |  | <0.15W   | <3.5mA /<br><0.15W   | 240VAC <0.15W  |   |  |
| Destanting      | No Load Powe   | er   |  |  | P  | <0.5W   |  |
| Protections     | Short Circuit  |  | Protection type : Constant current limiting, recovers automatically after fault condition is<br>removed  |  |  |   |  |
|                 | Overload   |  | Normally works within 110 ~ 125% rated output power for more than 3 seconds and switches to constant current limiting, with auto-recovery after the peak load condition is removed   |  |  |   |  |
|                 |  |  | Constant current limiting, if >125% rated power, with auto-recovery after the overload condition   |  |  |   |  |
|                 |  |  | -  | is rem   | ioved  |   |  |
|                 | Over Voltage   |  | 15.5 ~ 18.2V   |  |  |   |  |
|                 |  |  | Protection type : Shut down o/p voltage, re-power on to recover  |  |  |   |  |
|                 | Over Tempera   | ature  | Shut down O/P voltage, recovers automatically after temperature goes down  |  |  |   |  |
| Environment     | Working Tem  |  | -30 ~ +70°C  |  |  |   |  |
|                 | Working Hum  |  | 20 ~ 95% RH non-condensing   |  |  |   |  |
|                 | Storage Temp   |  | -40 ~ +85°C, 10 ~ 95% RH non-condensing  |  |  |   |  |
|                 | Temp. Coeffic  |  | ±0.05%/°C (0 ~ 50°C)   |  |  |   |  |
|                 | Vibration  |  | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes   |  |  |   |  |
| Safety & EMC    | Safety Standa  | rds  | IEC60950-1, UL60950-1 approved   |  |  |   |  |
| (Note 9)        | Withstand Vo   |  | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC  |  |  |   |  |
|                 | Isolation Resi   | stance   |  | P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH  |  |   |  |
|                 | EMC Emission   |  | Parameter  |  | ndard  | Test Level / Note   |  |
|                 |  |  | Conducted  |  | FCC PART15 (CISPR22)   | Class B   |  |
|                 |  |  |  |  |  | 61000 8   |  |
|                 |  |  | Radiated   | EN55032 (CISPR32) /  | FCC PART15 (CISPR22)   | Class B   |  |
|                 |  |  | Radiated<br>Harmonic Current   |  | FCC PART15 (CISPR22)<br>000-3-2  | Class B   |  |
|                 |  |  | Harmonic Current   | EN61   | 000-3-2  |   |  |
|                 | EMC Immunit  | v  |  | EN61<br>EN61   | 000-3-2<br>000-3-3   |   |  |
|                 | EMC Immunit  | у  | Harmonic Current<br>Voltage Flicker  | EN61<br>EN61<br>EN55   | 000-3-2<br>000-3-3<br>024  |   |  |
|                 | EMC Immunit  | у  | Harmonic Current<br>Voltage Flicker<br>Parameter   | EN61<br>EN61<br>EN55<br>Standard   | 000-3-2<br>000-3-3<br>024<br>Test Lev  | <br><br>el / Note   |  |
|                 | EMC Immunit  | у  | Harmonic Current<br>Voltage Flicker<br>Parameter<br>ESD  | EN61<br>EN61<br>EN55<br>Standard<br>EN61000-4-2  | 000-3-2<br>000-3-3<br>024<br>Test Lev<br>Level 3, 8KV air ; L  | el / Note<br>evel 2, 4KV contact  |  |
|                 | EMC Immunit  | у  | Harmonic Current<br>Voltage Flicker<br>Parameter<br>ESD<br>Radiated  | EN61<br>EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3   | 000-3-2<br>000-3-3<br>024<br>Level 3, 8KV air ; L<br>Level 2   | el / Note<br>evel 2, 4KV contact<br>, 3V/m  |  |
|                 | EMC Immunit  | у  | Harmonic Current<br>Voltage Flicker<br>Parameter<br>ESD<br>Radiated<br>EFT / Burst   | EN61<br>EN63<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-4  | 000-3-2<br>000-3-3<br>024<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2  | <br>el / Note<br>evel 2, 4KV contact<br>, 3V/m<br>2, 1KV  |  |
|                 | EMC Immunit  | у  | Harmonic Current<br>Voltage Flicker<br>Parameter<br>ESD<br>Radiated<br>EFT / Burst<br>Surge  | EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5   | 000-3-2<br>000-3-3<br>024<br>Level 3, 8KV air ; L<br>Level 2<br>Level<br>Level 2, 1KV/Line-Line,   | el / Note<br>evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth   |  |
|                 | EMC Immunit  | у  | Harmonic Current<br>Voltage Flicker<br>Parameter<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted   | EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-5  | 000-3-2<br>000-3-3<br>024<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2  | el / Note<br>evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms  |  |
|                 | EMC Immunit  | у  | Harmonic Current<br>Voltage Flicker<br>Parameter<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field   | EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-3<br>EN61000-4-5<br>EN61000-4-6<br>EN61000-4-8   | 000-3-2<br>000-3-3<br>024<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2<br>Level 1  | evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m   |  |
|                 | EMC Immunit  | у  | Harmonic Current<br>Voltage Flicker<br>Parameter<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field<br>Voltage Dips and   | EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-5  | 000-3-2<br>000-3-3<br>024<br>Test Level<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2<br>Level 2<br>Level 3<br>Level 3<br>Le | el / Note<br>evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m<br>, 30% dip 25 periods,   |  |
| Others          |  | у  | Harmonic Current<br>Voltage Flicker<br>Parameter<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field   | EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-3<br>EN61000-4-5<br>EN61000-4-5<br>EN61000-4-8<br>EN61000-4-8<br>EN61000-4-11  | 000-3-2<br>000-3-3<br>024<br>Test Level<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2<br>Level 1<br>>95% dip 0.5 periods<br>>95% interrupti   | evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m   |  |
| <u>Others</u>   | MTBF   | -  | Harmonic Current<br>Voltage Flicker<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field<br>Voltage Dips and<br>Interruptions   | EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-5<br>EN61000-4-8<br>EN61000-4-11<br>257K hrs. min. M  | 000-3-2<br>000-3-3<br>024<br>Test Level<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2<br>Level 1<br>>95% dip 0.5 periods<br>>95% interruption<br>L+DBK-217F (25°C)   | el / Note<br>evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m<br>, 30% dip 25 periods,<br>ons 250 periods  |  |
| Others<br>Notes | MTBF   | parameter  | Harmonic Current<br>Voltage Flicker<br>Parameter<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field<br>Voltage Dips and   | EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-5<br>EN61000-4-8<br>EN61000-4-11<br>257K hrs. min. M  | 000-3-2<br>000-3-3<br>024<br>Test Level<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2<br>Level 1<br>>95% dip 0.5 periods<br>>95% interruption<br>L+DBK-217F (25°C)   | el / Note<br>evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m<br>, 30% dip 25 periods,<br>ons 250 periods  |  |
|                 | MTBF<br>1. All<br>tem  | parameter<br>perature.   | Harmonic Current<br>Voltage Flicker<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field<br>Voltage Dips and<br>Interruptions<br>NOT specially mentioned  | EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-6<br>EN61000-4-8<br>EN61000-4-11<br>257K hrs. min. M<br>are measured at 230VAG  | 000-3-2<br>000-3-3<br>024<br>Test Level<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2<br>Level 1<br>>95% dip 0.5 periods<br>>95% interruption<br>L+DBK-217F (25°C)   | el / Note<br>evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m<br>, 30% dip 25 periods,<br>ons 250 periods  |  |
|                 | MTBF<br>1. All<br>tem<br>2. Pea  | parameter<br>perature.<br>k current (  | Harmonic Current<br>Voltage Flicker<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field<br>Voltage Dips and<br>Interruptions   | EN61<br>EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-6<br>EN61000-4-8<br>EN61000-4-11<br>257K hrs. min. M<br>are measured at 230VA0<br>nds is provided.  | 000-3-2<br>000-3-3<br>024<br>Test Level<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2, 1KV/Line-Line,<br>Level 1<br>>95% dip 0.5 periods<br>>95% interrupti<br>IL-HDBK-217F (25°C)<br>C input, rated load and 25  | evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m<br>, 30% dip 25 periods,<br>ons 250 periods   |  |
|                 | MTBF<br>1. All<br>tem<br>2. Pea<br>3. Rip  | parameter<br>perature.<br>k current (  | Harmonic Current<br>Voltage Flicker<br>Parameter<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field<br>Voltage Dips and<br>Interruptions<br>s NOT specially mentioned<br>or peak power up to 3 secon<br>e are measured at 20MHz of  | EN61<br>EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-6<br>EN61000-4-8<br>EN61000-4-11<br>257K hrs. min. M<br>are measured at 230VA0<br>nds is provided.  | 000-3-2<br>000-3-3<br>024<br>Test Level<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2, 1KV/Line-Line,<br>Level 1<br>>95% dip 0.5 periods<br>>95% interrupti<br>IL-HDBK-217F (25°C)<br>C input, rated load and 25  | evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m<br>, 30% dip 25 periods,<br>ons 250 periods   |  |
|                 | MTBF<br>1. All<br>tem<br>2. Pea<br>3. Rip<br>47u   | parameter<br>perature.<br>k current o<br>ple & noiso<br>f parallel o   | Harmonic Current<br>Voltage Flicker<br>Parameter<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field<br>Voltage Dips and<br>Interruptions<br>s NOT specially mentioned<br>or peak power up to 3 secon<br>e are measured at 20MHz of  | EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-6<br>EN61000-4-8<br>EN61000-4-11<br>257K hrs. min. M<br>are measured at 230VA0<br>nds is provided.<br>f bandwidth by using a  | 000-3-2<br>000-3-3<br>024<br>Test Level<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2, 1KV/Line-Line,<br>Level 2, 1KV/Line-Line,<br>Level 1<br>>95% dip 0.5 periods<br>>95% interrupti<br>IL-HDBK-217F (25°C)<br>C input, rated load and 29<br>12" twisted pair-wire term   | evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m<br>, 30% dip 25 periods,<br>ons 250 periods   |  |
|                 | MTBF<br>1. All<br>tem<br>2. Pea<br>3. Rip<br>47u<br>47u<br>4. Toll<br>5. Line  | parameter<br>perature.<br>k current o<br>ole & noiso<br>f parallel<br>erance: ind<br>ergulatio   | Harmonic Current<br>Voltage Flicker<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field<br>Voltage Dips and<br>Interruptions<br>NOT specially mentioned<br>or peak power up to 3 secor<br>e are measured at 20MHz of<br>capacitor.<br>Ludes set up tolerance, line<br>n is measured from low line  | EN61<br>EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-6<br>EN61000-4-6<br>EN61000-4-11<br>257K hrs. min. M<br>are measured at 230VAC<br>nds is provided.<br>f bandwidth by using a f<br>regulation and load reg<br>e to high line at rated load   | 000-3-2<br>000-3-3<br>024<br>Test Level<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2, 1KV/Line-Line,<br>Level 2, 1KV/Line-Line,<br>Level 2<br>Level 7<br>Solution 2<br>Solution 2<br>12" twisted pair-wire term<br>ulation.   | evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m<br>, 30% dip 25 periods,<br>ons 250 periods   |  |
|                 | MTBF<br>1. All<br>terr<br>2. Pea<br>3. Rip<br>47u<br>4. Tolo<br>5. Lino<br>6. Loa                                      | parameter<br>perature.<br>k current o<br>ole & noise<br>f parallel<br>erance: ino<br>e regulatio<br>d regulatio  | Harmonic Current<br>Voltage Flicker<br>Parameter<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field<br>Voltage Dips and<br>Interruptions<br>s NOT specially mentioned<br>or peak power up to 3 secon<br>e are measured at 20MHz of<br>capacitor.<br>cludes set up tolerance, line<br>n is measured from low line<br>on is measured from 0% to   | EN61<br>EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-5<br>EN61000-4-6<br>EN61000-4-6<br>EN61000-4-11<br>257K hrs. min. M<br>are measured at 230VA0<br>nds is provided.<br>f bandwidth by using a<br>regulation and load reg<br>e to high line at rated loa<br>100% rated load.  | 000-3-2<br>000-3-3<br>024<br>Test Level<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2, 1KV/Line-Line,<br>Level 1<br>>95% dip 0.5 periods<br>>95% interrupti<br>IL-HDBK-217F (25°C)<br>C input, rated load and 21<br>12" twisted pair-wire term<br>ulation.<br>ad.   | evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m<br>, 30% dip 25 periods,<br>ons 250 periods<br>5 of ambient   |  |
|                 | MTBF<br>1. All<br>tem<br>2. Pea<br>3. Rip<br>47u<br>4. Tole<br>5. Line<br>6. Loa<br>7. Len                             | parameter<br>perature.<br>k current o<br>ole & noiso<br>f parallel o<br>erance: ino<br>e regulatio<br>d regulatio<br>gth of set  | Harmonic Current<br>Voltage Flicker<br>Parameter<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field<br>Voltage Dips and<br>Interruptions<br>s NOT specially mentioned<br>or peak power up to 3 secon<br>e are measured at 20MHz of<br>capacitor.<br>cludes set up tolerance, line<br>n is measured from low line<br>on is measured from 0% to<br>up time is measured at colo                        | EN61<br>EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-5<br>EN61000-4-6<br>EN61000-4-6<br>EN61000-4-11<br>257K hrs. min. M<br>are measured at 230VA0<br>nds is provided.<br>f bandwidth by using a<br>regulation and load reg<br>e to high line at rated loa<br>100% rated load.  | 000-3-2<br>000-3-3<br>024<br>Test Level<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2, 1KV/Line-Line,<br>Level 1<br>>95% dip 0.5 periods<br>>95% interrupti<br>IL-HDBK-217F (25°C)<br>C input, rated load and 21<br>12" twisted pair-wire term<br>ulation.<br>ad.   | evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m<br>, 30% dip 25 periods,<br>ons 250 periods<br>5 of ambient   |  |
|                 | MTBF<br>1. All<br>tem<br>2. Pea<br>3. Ripj<br>47u<br>4. Tolo<br>5. Line<br>6. Loa<br>7. Len<br>incr                    | parameter<br>perature.<br>k current o<br>le & noise<br>f parallel o<br>erance: ino<br>eregulatio<br>d regulatio<br>d regulatio<br>gth of set<br>ease of th                           | Harmonic Current<br>Voltage Flicker<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field<br>Voltage Dips and<br>Interruptions<br>s NOT specially mentioned a<br>capacitor.<br>cludes set up tolerance, line<br>n is measured at 20MHz of<br>capacitor.<br>cludes set up tolerance, line<br>n is measured from low line<br>on is measured from 0% to<br>up time is measured at color<br>e set up time. | EN61<br>EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-6<br>EN61000-4-6<br>EN61000-4-8<br>EN61000-4-11<br>257K hrs. min. M<br>are measured at 230VAG<br>nds is provided.<br>f bandwidth by using a<br>regulation and load reg<br>to high line at rated load<br>100% rated load.<br>d first start. Turning ON,  | 000-3-2<br>000-3-3<br>024<br>Test Level<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2, 1KV/Line-Line,<br>Level 2, 1KV/Line-Line,<br>Level 2<br>Level 1<br>>95% dip 0.5 periods<br>>95% interrupti<br>IL-HDBK-217F (25°C)<br>C input, rated load and 2<br>12" twisted pair-wire term<br>ulation.<br>ad.<br>/OFF the power supply ve  | el / Note<br>evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m<br>, 30% dip 25 periods,<br>ons 250 periods<br>5 of ambient<br>inated with a 0.1 uf &<br>ry quickly may lead to                |  |
|                 | MTBF<br>1. All<br>tem<br>2. Pea<br>3. Rip<br>47u<br>4. Tolo<br>5. Line<br>6. Loa<br>7. Len<br>inct<br>8. Der           | parameter<br>perature.<br>k current of<br>ole & noise<br>f parallel<br>erance: inc<br>eregulatio<br>d regulatio<br>d regulatio<br>gth of set<br>ease of th<br>ating may              | Harmonic Current<br>Voltage Flicker<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field<br>Voltage Dips and<br>Interruptions<br>NOT specially mentioned<br>are measured at 20MHz of<br>capacitor.<br>cludes set up tolerance, line<br>n is measured from low line<br>on is measured from 0% to<br>up time is measured at colo<br>e set up time.<br>be needed under low input                         | EN61<br>EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-6<br>EN61000-4-6<br>EN61000-4-8<br>EN61000-4-8<br>EN61000-4-11<br>257K hrs. min. M<br>are measured at 230VA0<br>nds is provided.<br>f bandwidth by using a<br>regulation and load reg<br>to high line at rated load.<br>to wigh line at rated load.<br>d first start. Turning ON,<br>voltages. Please check to                | 000-3-2<br>000-3-3<br>024<br>Test Level<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2, 1KV/Line-Line,<br>Level 2, 1KV/Line-Line,<br>Level 2<br>Level 7<br>Solution-Level 1<br>>95% dip 0.5 periods<br>>95% interruption<br>Solution 2000<br>Comput, rated load and 20000<br>Comput, rated load and 2000<br>Comput, rated load and 2000<br>Compu   | el / Note<br>evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m<br>, 30% dip 25 periods,<br>ons 250 periods<br>5 of ambient<br>inated with a 0.1 uf &<br>ry quickly may lead to<br>re details. |  |
|                 | MTBF<br>1. All<br>tem<br>2. Pea<br>3. Rip<br>47u<br>4. Toll<br>5. Line<br>6. Loa<br>7. Len<br>incr<br>8. Der<br>9. The | parameter<br>perature.<br>k current o<br>ple & noiso<br>f parallel o<br>erance: ino<br>e regulatio<br>d regulatio<br>gth of set<br>ease of th<br>ease of th<br>ating may<br>power su | Harmonic Current<br>Voltage Flicker<br>ESD<br>Radiated<br>EFT / Burst<br>Surge<br>Conducted<br>Magnetic Field<br>Voltage Dips and<br>Interruptions<br>s NOT specially mentioned a<br>capacitor.<br>cludes set up tolerance, line<br>n is measured at 20MHz of<br>capacitor.<br>cludes set up tolerance, line<br>n is measured from low line<br>on is measured from 0% to<br>up time is measured at color<br>e set up time. | EN61<br>EN61<br>EN55<br>Standard<br>EN61000-4-2<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-5<br>EN61000-4-6<br>EN61000-4-6<br>EN61000-4-11<br>257K hrs. min. M<br>are measured at 230VA0<br>nds is provided.<br>f bandwidth by using a<br>regulation and load reg<br>to high line at rated loa<br>100% rated load.<br>d first start. Turning ON,<br>voltages. Please check to<br>dependent unit, but the file<br>to high line at start. | 000-3-2<br>000-3-3<br>024<br>Test Level<br>Level 3, 8KV air ; L<br>Level 2<br>Level 2<br>Level 2, 1KV/Line-Line,<br>Level 2, 1KV/Line-Line,<br>Level 2, 1KV/Line-Line,<br>Level 2<br>Level 7<br>Solution-Level 1<br>>95% dip 0.5 periods<br>>95% interruption<br>Solution 2000<br>Comput, rated load and 20000<br>Comput, rated load and 2000<br>Comput, rated load and 2000<br>Compu   | el / Note<br>evel 2, 4KV contact<br>, 3V/m<br>2, 1KV<br>Level 3, 2KV/Line-Earth<br>, 3Vrms<br>, 1A/m<br>, 30% dip 25 periods,<br>ons 250 periods<br>5 of ambient<br>inated with a 0.1 uf &<br>ry quickly may lead to<br>re details. |  |

## **Section 6 | Warranty**

DuraComm warrants to the initial end user, each power supply manufactured by DuraComm to be free from defects in material and workmanship when in normal use and service for a period of three years from the date of purchase from an authorized DuraComm dealer.

Should a product manufactured by DuraComm fail or malfunction due to manufacturing defect, or faulty component, DuraComm, at its option, will repair or replace the faulty product or parts thereof, which, after examination by DuraComm, prove to be defective or not operational according to specifications in effect at the time of sale to the initial end user. The product that is replaced or repaired under the provisions of this warranty will be warranted for the remainder of the original warranty period, only, and will not extend into a new three year warranty period.

The limited warranty does not extend to any DuraComm product which has been subject to misuse, accidental damage, neglect, incorrect wiring not associated with manufacture, improper charging voltages, or any product which has had the serial number removed, altered, defaced, or changed in any way.

DuraComm reserves the right to change, alter, or improve the specifications of its products at any time, and by so doing, incurs no obligation to install or retrofit any such changes or improvements in or on products manufactured prior to inclusion of such changes.

DuraComm requires any product needing in or out of warranty service to be returned to DuraComm. All requests for warranty service must be accompanied by proof of purchase, such as bill of sale with purchase date identified. DuraComm is not responsible for any expenses or payments incurred for the removal of the product from its place of use, transportation or shipping expenses to the place of repair, or return expenses of a repaired or replacement product to its place of use.

The implied warranties that the law imposes on the sale of this product are expressly LIMITED, in duration, to the three (3) year time period specified herein. DuraComm will not be liable for damages, consequential or otherwise, resulting from the use and operation of this product, or from the breach of this LIMITED WARRANTY. Some states do not allow limitations on the duration of the implied warranty or exclusions or limitations of incidental or consequential damages, so said limitations or exclusions may not apply to you. This warranty gives you specific legal rights which vary from state to state. This warranty is given in lieu of all other warranties, whether expressed, implied, or by law. All other warranties, including WITHOUT LIMITATION, warranties of merchantability and fitness or suitability for a particular purpose, are specifically excluded. DuraComm reserves the right to change or modify its warranty and service programs without prior notice.

Section 7 | Contact Us

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