

UL 60950																																																																																																									
Safety of information technology equipment																																																																																																									
Test item description: DC to DC Converter																																																																																																									
Trademark: Power Mate or P-DUKE																																																																																																									
Model and/or type reference: DU1P0-XSYZ, DU1P0-XDYZ (X=05, 12, 15, 24, B, C, D, E; Y=05, 12, 15; Z=N or blank)																																																																																																									
General Product Information:																																																																																																									
CD1.0	Additional Information																																																																																																								
CD1.1	1.Reforced insulation for Models DU1P0-XDYN and DU1P0-XSYN based on Nominal AC Mains Supply Voltage 300 Vrms." 2.Electrical Ratings: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Model</th> <th style="text-align: left;">I/P (DC)</th> <th style="text-align: left;">I/P (mA)</th> <th style="text-align: left;">O/P (DC)</th> <th style="text-align: left;">O/P (mA)</th> </tr> </thead> <tbody> <tr> <td>DU1P0-05S05</td> <td>4.5 - 5.5 V or 5V</td> <td>298mA</td> <td>5 V</td> <td>200mA</td> </tr> <tr> <td>DU1P0-BS05</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DU1P0-05S12, DU1P0-BS12</td> <td>4.5 - 5.5 V or 5V</td> <td>269mA</td> <td>12 V</td> <td>83mA</td> </tr> <tr> <td>DU1P0-05S15, DU1P0-BS15</td> <td>4.5 - 5.5 V or 5V</td> <td>272mA</td> <td>15 V</td> <td>67mA</td> </tr> <tr> <td>DU1P0-12S05, DU1P0-CS05</td> <td>10.8 - 13.2 V or 12V</td> <td>121mA</td> <td>5 V</td> <td>200mA</td> </tr> <tr> <td>DU1P0-12S12, DU1P0-CS12</td> <td>10.8 - 13.2 V or 12V</td> <td>111mA</td> <td>12 V</td> <td>83mA</td> </tr> <tr> <td>DU1P0-12S15, DU1P0-CS15</td> <td>10.8 - 13.2 V or 12V</td> <td>112mA</td> <td>15 V</td> <td>67mA</td> </tr> <tr> <td>DU1P0-15S05, DU1P0-DS05</td> <td>13.5 - 16.5 V or 15V</td> <td>97mA</td> <td>5 V</td> <td>200mA</td> </tr> <tr> <td>DU1P0-15S12, DU1P0-DS12</td> <td>13.5 - 16.5 V or 15V</td> <td>89mA</td> <td>12 V</td> <td>83mA</td> </tr> <tr> <td>DU1P0-15S15, DU1P0-DS15</td> <td>13.5 - 16.5 V or 15V</td> <td>89mA</td> <td>15 V</td> <td>67mA</td> </tr> <tr> <td>DU1P0-24S05, DU1P0-ES05</td> <td>21.6 - 26.4 V or 24V</td> <td>62mA</td> <td>5 V</td> <td>200mA</td> </tr> <tr> <td>DU1P0-24S12, DU1P0-ES12</td> <td>21.6 - 26.4 V or 24V</td> <td>58mA</td> <td>12 V</td> <td>83mA</td> </tr> <tr> <td>DU1P0-24S15, DU1P0-ES15</td> <td>21.6 - 26.4 V or 24V</td> <td>55mA</td> <td>± 15 V</td> <td>33mA</td> </tr> <tr> <td>DU1P0-05S05N, DU1P0-BS05N</td> <td>4.5 - 5.5 V or 5V</td> <td>298mA</td> <td>5 V</td> <td>200mA</td> </tr> <tr> <td>DU1P0-05S12N, DU1P0-BS12N</td> <td>4.5 - 5.5 V or 5V</td> <td>269mA</td> <td>12 V</td> <td>83mA</td> </tr> <tr> <td>DU1P0-05S15N, DU1P0-BS15N</td> <td>4.5 - 5.5 V or 5V</td> <td>272mA</td> <td>15 V</td> <td>67mA</td> </tr> <tr> <td>DU1P0-12S05N, DU1P0-CS05N</td> <td>10.8 - 13.2 V or 12V</td> <td>121mA</td> <td>5 V</td> <td>200mA</td> </tr> <tr> <td>DU1P0-12S12N, DU1P0-CS12N</td> <td>10.8 - 13.2 V or 12V</td> <td>111mA</td> <td>12 V</td> <td>83mA</td> </tr> <tr> <td>DU1P0-12S15N, DU1P0-CS15N</td> <td>10.8 - 13.2 V or 12V</td> <td>112mA</td> <td>15 V</td> <td>67mA</td> </tr> </tbody> </table>					Model	I/P (DC)	I/P (mA)	O/P (DC)	O/P (mA)	DU1P0-05S05	4.5 - 5.5 V or 5V	298mA	5 V	200mA	DU1P0-BS05					DU1P0-05S12, DU1P0-BS12	4.5 - 5.5 V or 5V	269mA	12 V	83mA	DU1P0-05S15, DU1P0-BS15	4.5 - 5.5 V or 5V	272mA	15 V	67mA	DU1P0-12S05, DU1P0-CS05	10.8 - 13.2 V or 12V	121mA	5 V	200mA	DU1P0-12S12, DU1P0-CS12	10.8 - 13.2 V or 12V	111mA	12 V	83mA	DU1P0-12S15, DU1P0-CS15	10.8 - 13.2 V or 12V	112mA	15 V	67mA	DU1P0-15S05, DU1P0-DS05	13.5 - 16.5 V or 15V	97mA	5 V	200mA	DU1P0-15S12, DU1P0-DS12	13.5 - 16.5 V or 15V	89mA	12 V	83mA	DU1P0-15S15, DU1P0-DS15	13.5 - 16.5 V or 15V	89mA	15 V	67mA	DU1P0-24S05, DU1P0-ES05	21.6 - 26.4 V or 24V	62mA	5 V	200mA	DU1P0-24S12, DU1P0-ES12	21.6 - 26.4 V or 24V	58mA	12 V	83mA	DU1P0-24S15, DU1P0-ES15	21.6 - 26.4 V or 24V	55mA	± 15 V	33mA	DU1P0-05S05N, DU1P0-BS05N	4.5 - 5.5 V or 5V	298mA	5 V	200mA	DU1P0-05S12N, DU1P0-BS12N	4.5 - 5.5 V or 5V	269mA	12 V	83mA	DU1P0-05S15N, DU1P0-BS15N	4.5 - 5.5 V or 5V	272mA	15 V	67mA	DU1P0-12S05N, DU1P0-CS05N	10.8 - 13.2 V or 12V	121mA	5 V	200mA	DU1P0-12S12N, DU1P0-CS12N	10.8 - 13.2 V or 12V	111mA	12 V	83mA	DU1P0-12S15N, DU1P0-CS15N	10.8 - 13.2 V or 12V	112mA	15 V	67mA
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Issue Date: 2003-06-10
 Amendment 2 2003-09-29

Report Reference #

E193009-A1-UL-1

DU1P0-15S05N, DU1P0-DS05N	13.5 - 16.5 V or 15V	97mA	5 V	200mA
DU1P0-15S12N, DU1P0-DS12N	13.5 - 16.5 V or 15V	89mA	12 V	83mA
DU1P0-15S15N, DU1P0-DS15N	13.5 - 16.5 V or 15V	89mA	15 V	67mA
DU1P0-24S05N, DU1P0-ES05N	21.6 - 26.4 V or 24V	62mA	5 V	200mA
DU1P0-24S12N, DU1P0-ES12N	21.6 - 26.4 V or 24V	58mA	12 V	83mA
DU1P0-24S15N, DU1P0-ES15N	21.6 - 26.4 V or 24V	55mA	± 15 V	33mA
DU1P0-05D05, DU1P0-BD05	4.5 - 5.5 V or 5V	295mA	± 5 V	100mA
DU1P0-05D12, DU1P0-BD12	4.5 - 5.5 V or 5V	273mA	± 12 V	42mA
DU1P0-05D15, DU1P0-BD15	4.5 - 5.5 V or 5V	268mA	± 15 V	33mA
DU1P0-12D05, DU1P0-CD05	10.8 - 13.2 V or 12V	119mA	± 5 V	100mA
DU1P0-12D12, DU1P0-CD12	10.8 - 13.2 V or 12V	111mA	± 12 V	42mA
DU1P0-12D15, DU1P0-CD15	10.8 - 13.2 V or 12V	109mA	± 15 V	33mA
DU1P0-15D05, DU1P0-DD05	13.5 - 16.5 V or 15V	95mA	± 5 V	100mA
DU1P0-15D12, DU1P0-DD12	13.5 - 16.5 V or 15V	88mA	± 12 V	42mA
DU1P0-15D15, DU1P0-DD15	13.5 - 16.5 V or 15V	87mA	± 15 V	33mA
DU1P0-24D05, DU1P0-ED05	21.6 - 26.4 V or 24V	61mA	± 5 V	100mA
DU1P0-24D12, DU1P0-ED12	21.6 - 26.4 V or 24V	57mA	± 12 V	42mA
DU1P0-24D15, DU1P0-ED15	21.6 - 26.4 V or 24V	57mA	15 V	67mA
DU1P0-05D05N, DU1P0-BD05N	4.5 - 5.5 V or 5V	295mA	± 5 V	100mA
DU1P0-05D12N, DU1P0-BD12N	4.5 - 5.5 V or 5V	273mA	± 12 V	42mA
DU1P0-05D15N, DU1P0-BD15N	4.5 - 5.5 V or 5V	268mA	± 15 V	33mA
DU1P0-12D05N, DU1P0-CD05N	10.8 - 13.2 V or 12V	119mA	± 5 V	100mA
DU1P0-12D12N, DU1P0-CD12N	10.8 - 13.2 V or 12V	111mA	± 12 V	42mA
DU1P0-12D15N, DU1P0-CD15N	10.8 - 13.2 V or 12V	109mA	± 15 V	33mA
DU1P0-15D05N, DU1P0-DD05N	13.5 - 16.5 V or 15V	95mA	± 5 V	100mA
DU1P0-15D12N, DU1P0-DD12N	13.5 - 16.5 V or 15V	88mA	± 12 V	42mA

	DU1P0-15D15N, 13.5 - 16.5 V or 15V DU1P0-DD15N DU1P0-24D05N, 21.6 - 26.4 V or 24V DU1P0-ED05N DU1P0-24D12N, 21.6 - 26.4 V or 24V DU1P0-ED12N DU1P0-24D15N, 21.6 - 26.4 V or 24V DU1P0-ED15N	87mA ± 15 V 33mA 61mA ± 5 V 100mA 57mA ± 12 V 42mA 57mA 15 V 67mA
CF1.0	Engineering Conditions of Acceptability	
CF1.1	For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc. When installed in an end-product, consideration must be given to the following:	
CF1.5	The following secondary output circuits are SELV:	All output
CF1.6	The following secondary output circuits are at hazardous energy levels	All output
CF1.11	The power supply terminals and/or connectors are	Suitable for factory wiring only
CF1.13	The investigated Pollution Degree is	2
CF1.19	The following end-product enclosures are required	Electrical, Fire
CF2.0	The Model DU1P0-XSY and DU1P0-XDY are intended to be connected to isolated secondary circuit which is separated from primary circuit by Reinforced or Double insulation.	--
CF2.1	All secondary output circuits are SELV only if circuit meet the limits of Sub-Clause 2.24 in the event of a single failure of any component and insulation of secondary circuit to which it is connected.	--
CF2.2	The humidity test will conduct in end product.	--