

# CERTIFICATE

No. U6 098351 0004 Rev. 00

**Holder of Certificate:** Intral S.A. Indústria de  
**Materiais Elétricos**  
Travessa Rio Grande 130, Bairro Kayser  
95098-750 Caxias do Sul/RS  
BRAZIL

**Certification Mark:**

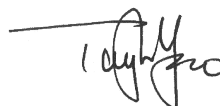


**Product:** Power supplies  
(LED Driver)

The product was voluntarily tested according to the listed standards. The product can be marked with the certification mark shown above. It is not permitted to alter the certification mark in any way. In addition, the certificate holder must not transfer the certificate to third parties. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64142195014401A

**Date,** 2020-06-09



( Taylor Yao )

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## Model(s):

L4020-CIP4U1050/042N; L4020-CIP4U1050/042XYY;  
 L4021-CIP4U0700/042N; L4021-CIP4U0700/042XYY;  
 L4022-CIP4U2100/075N; L4023-CIP4U1400/075N;  
 L4012-CIP4U1050/075N; L4022-CIP4U2100/075XYY;  
 L4023-CIP4U1400/075XYY; L4012-CIP4U1050/075XYY;  
 L4024-CIP4U2800/105N; L4025-CIP4U2100/105N;  
 L4026-CIP4U1400/105N; L4013-CIP4U1050/105N;  
 L4024-CIP4U2800/105XYY; L4025-CIP4U2100/105XYY;  
 L4026-CIP4U1400/105XYY; L4013-CIP4U1050/105XYY;  
 L4027-CIP4U3200/120N; L4028-CIP4U2100/120N;  
 L4029-CIP4U1400/120N; L4030-CIP4U1050/120N;  
 L4027-CIP4U3200/120XYY; L4028-CIP4U2100/120XYY;  
 L4029-CIP4U1400/120XYY; L4030-CIP4U1050/120XYY;  
 L4031-CIP4U4200/150N; L4032-CIP4U3150/150N;  
 L4033-CIP4U2100/150N; L4015-CIP4U1500/150N;  
 L4014-CIP4U1050/150N; L4031-CIP4U4200/150XYY;  
 L4032-CIP4U3150/150XYY; L4033-CIP4U2100/150XYY;  
 L4015-CIP4U1500/150XYY; L4014-CIP4U1050/150XYY;  
 L4034-CIP4U5560/200N; L4035-CIP4U4900/200N;  
 L4036-CIP4U2800/200N; L4037-CIP4U2100/200N;  
 L4038-CIP4U1500/200N; L4016-CIP4U1050/200N;  
 L4034-CIP4U5560/200XYY; L4035-CIP4U4900/200XYY;  
 L4036-CIP4U2800/200XYY; L4037-CIP4U2100/200XYY;  
 L4038-CIP4U1500/200XYY; L4016-CIP4U1050/200XYY;  
 L4039-CIP4U6700/240N; L4040-CIP4U5000/240N;  
 L4041-CIP4U4200/240N; L4042-CIP4U2100/240N;  
 L4043-CIP4U1500/240N; L4017-CIP4U1050/240N;  
 L4039-CIP4U6700/240XYY; L4040-CIP4U5000/240XYY;  
 L4041-CIP4U4200/240XYY; L4042-CIP4U2100/240XYY;  
 L4043-CIP4U1500/240XYY; L4017-CIP4U1050/240XYY;  
 L4044-CIP4U8900/320N; L4045-CIP4U6700/320N;  
 L4046-CIP4U2800/320N; L4047-CIP4U2100/320N;  
 L4018-CIP4U1050/320N; L4044-CIP4U8900/320XYY;  
 L4045-CIP4U6700/320XYY; L4046-CIP4U2800/320XYY;  
 L4047-CIP4U2100/320XYY; L4018-CIP4U1050/320XYY  
 ('X' can be C, D, P, L, which stands for different dimming  
 function, C= PLC control dimming,  
 D= 0-10V or PWM, P= programmable with wire dimming and  
 time step dimming, L= DALI dimming;  
 'YY' can be 01 to 12, or blank, which stands for auxiliary  
 power supply voltage 1V to 12V, in steps of 1V)

Brand Name:

intral



## Parameters:

Rated Input Voltage: 100-240VAC

Rated Frequency: 50/60Hz

Rated Input Current: See below table for details

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Rated Output: See below table for details  
Protection against Electric Shock: Class I;  
SELV (for models with  $U_{out} \leq 120VDC$ );  
Isolating (for models with  $U_{out} > 120VDC$ )  
Degree of Protection: IP67  
Method of Installation: Independent  
Type of Output: Constant current type  
ta: See below table for details  
tc: See below table for details

| Model No.              | Rated Input<br>Current (A)<br>Max. | Output<br>Voltage (VDC) | I <sub>rated</sub> (A) | U <sub>out</sub><br>(VDC) | P <sub>rated</sub> (W)<br>Max. | ta(°C)                              | tc (°C) |
|------------------------|------------------------------------|-------------------------|------------------------|---------------------------|--------------------------------|-------------------------------------|---------|
| L4020-CIP4U1050/042N   | 0.6                                | 20-41                   | 0.63-1.05              | 60                        | 42                             | 60                                  | 90      |
| L4020-CIP4U1050/042XYY | 0.6                                | 20-41                   | 0.105-1.05             | 60                        | 42                             |                                     |         |
| L4021-CIP4U0700/042N   | 0.6                                | 38-62                   | 0.07-0.7               | 80                        | 42                             |                                     |         |
| L4021-CIP4U0700/042XYY | 0.6                                | 38-62                   | 0.07-0.7               | 80                        | 42                             |                                     |         |
| L4022-CIP4U2100/075N   | 1                                  | 20-41                   | 1.6-2.67               | 60                        | 75                             | 60                                  | 90      |
| L4023-CIP4U1400/075N   | 1                                  | 38-62                   | 1.13-1.88              | 90                        | 75                             |                                     |         |
| L4012-CIP4U1050/075N   | 1                                  | 54-108                  | 0.63-1.05              | 120                       | 75                             |                                     |         |
| L4022-CIP4U2100/075XYY | 1                                  | 20-41                   | 0.267-2.67             | 60                        | 75                             |                                     |         |
| L4023-CIP4U1400/075XYY | 1                                  | 38-62                   | 0.188-1.88             | 90                        | 75                             |                                     |         |
| L4012-CIP4U1050/075XYY | 1                                  | 54-108                  | 0.105-1.05             | 120                       | 75                             |                                     |         |
| L4024-CIP4U2800/105N   | 1.5                                | 20-41                   | 2.1-3.5                | 60                        | 105                            | 60                                  | 90      |
| L4025-CIP4U2100/105N   | 1.5                                | 38-62                   | 1.5-2.5                | 80                        | 105                            |                                     |         |
| L4026-CIP4U1400/105N   | 1.5                                | 50-100                  | 0.84-1.4               | 120                       | 105                            |                                     |         |
| L4013-CIP4U1050/105N   | 1.5                                | 75-150                  | 0.63-1.05              | 160                       | 105                            |                                     |         |
| L4024-CIP4U2800/105XYY | 1.5                                | 20-41                   | 0.35-3.5               | 60                        | 105                            |                                     |         |
| L4025-CIP4U2100/105XYY | 1.5                                | 38-62                   | 0.25-2.5               | 80                        | 105                            |                                     |         |
| L4026-CIP4U1400/105XYY | 1.5                                | 50-100                  | 0.14-1.4               | 120                       | 105                            |                                     |         |
| L4013-CIP4U1050/105XYY | 1.5                                | 75-150                  | 0.105-1.05             | 160                       | 105                            |                                     |         |
| L4027-CIP4U3200/120N   | 1.7                                | 20-41                   | 2.1-3.5                | 60                        | 120                            | 60                                  | 90      |
| L4028-CIP4U2100/120N   | 1.7                                | 38-62                   | 1.5-2.5                | 80                        | 120                            |                                     |         |
| L4029-CIP4U1400/120N   | 1.7                                | 50-100                  | 0.84-1.4               | 120                       | 120                            |                                     |         |
| L4030-CIP4U1050/120N   | 1.7                                | 75-150                  | 0.63-1.05              | 160                       | 120                            |                                     |         |
| L4027-CIP4U3200/120XYY | 1.7                                | 20-41                   | 0.35-3.5               | 60                        | 120                            |                                     |         |
| L4028-CIP4U2100/120XYY | 1.7                                | 38-62                   | 0.25-2.5               | 80                        | 120                            |                                     |         |
| L4029-CIP4U1400/120XYY | 1.7                                | 50-100                  | 0.14-1.4               | 120                       | 120                            |                                     |         |
| L4030-CIP4U1050/120XYY | 1.7                                | 75-150                  | 0.105-1.05             | 160                       | 120                            |                                     |         |
| L4031-CIP4U4200/150N   | 2                                  | 20-41                   | 3.24-5.4               | 60                        | 150                            | 55 (100-200VAC);<br>60 (200-240VAC) | 90      |
| L4032-CIP4U3150/150N   | 2                                  | 38-62                   | 2.16-3.6               | 80                        | 150                            |                                     |         |
| L4033-CIP4U2100/150N   | 2                                  | 54-108                  | 1.26-2.1               | 120                       | 150                            |                                     |         |
| L4015-CIP4U1500/150N   | 2                                  | 80-143                  | 0.9-1.5                | 160                       | 150                            |                                     |         |
| L4014-CIP4U1050/150N   | 2                                  | 107-214                 | 0.63-1.05              | 240                       | 150                            |                                     |         |

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|                        |     |         |            |     |     |                                     |                                     |
|------------------------|-----|---------|------------|-----|-----|-------------------------------------|-------------------------------------|
| L4031-CIP4U4200/150XYY | 2   | 20-41   | 0.54-5.4   | 60  | 150 |                                     |                                     |
| L4032-CIP4U3150/150XYY | 2   | 38-62   | 0.36-3.6   | 80  | 150 |                                     |                                     |
| L4033-CIP4U2100/150XYY | 2   | 54-108  | 0.21-2.1   | 120 | 150 |                                     |                                     |
| L4015-CIP4U1500/150XYY | 2   | 80-143  | 0.15-1.5   | 160 | 150 |                                     |                                     |
| L4014-CIP4U1050/150XYY | 2   | 107-214 | 0.105-1.05 | 240 | 150 |                                     |                                     |
| L4034-CIP4U5560/200N   | 2.8 | 20-41   | 4-6.67     | 50  | 200 | 55 (100-200VAC);<br>60 (200-240VAC) | 90                                  |
| L4035-CIP4U4900/200N   | 2.8 | 38-62   | 3-5        | 70  | 200 |                                     |                                     |
| L4036-CIP4U2800/200N   | 2.8 | 48-96   | 1.8-3      | 110 | 200 |                                     |                                     |
| L4037-CIP4U2100/200N   | 2.8 | 70-143  | 1.26-2.1   | 150 | 200 |                                     |                                     |
| L4038-CIP4U1500/200N   | 2.8 | 96-191  | 0.9-1.5    | 200 | 200 |                                     |                                     |
| L4016-CIP4U1050/200N   | 2.8 | 143-286 | 0.63-1.05  | 300 | 200 |                                     |                                     |
| L4034-CIP4U5560/200XYY | 2.8 | 20-41   | 0.667-6.67 | 50  | 200 |                                     |                                     |
| L4035-CIP4U4900/200XYY | 2.8 | 38-62   | 0.5-5      | 70  | 200 |                                     |                                     |
| L4036-CIP4U2800/200XYY | 2.8 | 48-96   | 0.3-3      | 110 | 200 |                                     |                                     |
| L4037-CIP4U2100/200XYY | 2.8 | 70-143  | 0.21-2.1   | 150 | 200 |                                     |                                     |
| L4038-CIP4U1500/200XYY | 2.8 | 96-191  | 0.15-1.5   | 200 | 200 |                                     |                                     |
| L4016-CIP4U1050/200XYY | 2.8 | 143-286 | 0.105-1.05 | 300 | 200 |                                     |                                     |
| L4039-CIP4U6700/240N   | 3.3 | 20-41   | 4.5-7.5    | 60  | 240 | 55 (100-200VAC);<br>60 (200-240VAC) | 90 (100-200VAC);<br>95 (200-240VAC) |
| L4040-CIP4U5000/240N   | 3.3 | 38-62   | 3.43-5.71  | 80  | 240 |                                     |                                     |
| L4041-CIP4U4200/240N   | 3.3 | 43-86   | 2.52-4.2   | 100 | 240 |                                     |                                     |
| L4042-CIP4U2100/240N   | 3.3 | 85-171  | 1.26-2.1   | 190 | 240 |                                     |                                     |
| L4043-CIP4U1500/240N   | 3.3 | 114-229 | 0.9-1.5    | 250 | 240 |                                     |                                     |
| L4017-CIP4U1050/240N   | 3.3 | 171-343 | 0.63-1.05  | 370 | 240 |                                     |                                     |
| L4039-CIP4U6700/240XYY | 3.3 | 20-41   | 0.75-7.5   | 60  | 240 |                                     |                                     |
| L4040-CIP4U5000/240XYY | 3.3 | 38-62   | 0.571-5.71 | 80  | 240 |                                     |                                     |
| L4041-CIP4U4200/240XYY | 3.3 | 43-86   | 0.42-4.2   | 100 | 240 |                                     |                                     |
| L4042-CIP4U2100/240XYY | 3.3 | 85-171  | 0.21-2.1   | 190 | 240 |                                     |                                     |
| L4043-CIP4U1500/240XYY | 3.3 | 114-229 | 0.15-1.5   | 250 | 240 |                                     |                                     |
| L4017-CIP4U1050/240XYY | 3.3 | 171-343 | 0.105-1.05 | 370 | 240 |                                     |                                     |
| L4044-CIP4U8900/320N   | 4   | 20-41   | 6-10       | 60  | 320 | 55 (100-200VAC);<br>60 (200-240VAC) | 90 (100-200VAC);<br>95 (200-240VAC) |
| L4045-CIP4U6700/320N   | 4   | 38-62   | 4.5-7.5    | 80  | 320 |                                     |                                     |
| L4046-CIP4U2800/320N   | 4   | 50-143  | 1.92-3.2   | 160 | 320 |                                     |                                     |
| L4047-CIP4U2100/320N   | 4   | 115-230 | 1.23-2.11  | 250 | 320 |                                     |                                     |
| L4018-CIP4U1050/320N   | 4   | 228-457 | 0.66-1.1   | 480 | 320 |                                     |                                     |
| L4044-CIP4U8900/320XYY | 4   | 20-41   | 1-10.0     | 60  | 320 |                                     |                                     |
| L4045-CIP4U6700/320XYY | 4   | 38-62   | 0.75-7.5   | 80  | 320 |                                     |                                     |
| L4046-CIP4U2800/320XYY | 4   | 50-143  | 0.32-3.2   | 160 | 320 |                                     |                                     |
| L4047-CIP4U2100/320XYY | 4   | 115-230 | 0.211-2.11 | 250 | 320 |                                     |                                     |
| L4018-CIP4U1050/320XYY | 4   | 228-457 | 0.11-1.1   | 480 | 320 |                                     |                                     |



Product Service

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**Tested  
according to:**

EN 61347-2-13:2014/A1:2017  
EN 61347-1:2015  
EN 62384:2006/A1:2009

**Production  
Facility(ies):**

071477, 104780