



# Certificate of Compliance

Certificate: 2602911 Master Contract: 181564 (108238\_0\_000)

Project: 70144147 Date Issued: 2017-10-19

Issued to: Delta Electronics (Thailand) Public Co., Ltd.  
909 Soi 9 Moo 4 Pattana 1 Rd  
Bangpoo Industrial Estate E.P.Z.  
Tambol Phraksa  
Amphur Muang, Samut Prakan 10280  
THAILAND  
Attention: Nils Dohrmann

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



Issued by: *John Yam*  
John Yam

## PRODUCTS

CLASS - C531801 - POWER SUPPLIES-For Hazardous Locations

CLASS - C531881 - POWER SUPPLIES-For Hazardous Locations - Certified to U.S. Standards

Class I, Division 2, Groups A, B, C and D

CliQ Series – DIN rail Component Type Switching Mode Power Supply for built in use

Models: (See following table)

Rating: (See following table)

Model	Input	Output	Ambient range (Derating: output power in %)	Temp. Code
DRP012V015W1AX	100-240V; 50-60Hz; 0,4A	12Vdc; 1,25A (Adj. 11-14V, 15W max.)	-20 – 80°C (-2,5% / °C above 50°C) (-4,0% / °C above 70°C)	T4
DRP012V030W1AX	100-240V; 50-60Hz; 0,8A	12Vdc; 2,5A (Adj. 11-14V, 30W max.)	-20 – 80°C (-2,5% / °C above 50°C) (-4,0% / °C above 70°C)	T4
DRP012V060W1AX	100-240V; 50-60Hz; 1,5A	12Vdc; 5,0A (Adj. 11-14V, 60W max.)	-20 – 80°C (-2,5% / °C above 50°C) (-4,0% / °C above 70°C)	T4



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<b>DRP012V100W1AX</b>	100-240V; 50-60Hz; 2,5A	12Vdc; 8,33A (Adj. 11-14V, 100W max.)	-20 – 80°C (-2,5% / °C above 50°C, vertical position) (-2,5% / °C above 50°C, horizontal position) (-4,0% / °C above 70°C, horizontal position)	T4
<b>DRP024V060W1BX</b>	100-240V; 50-60Hz; 1,5A	24Vdc; 2,5A (Adj. 24-28V, 60W max.)	-25 – 80°C (-2,5% / °C above 50°C)	T4
<b>DRP024V120W1BX</b>	100-240V; 50-60Hz; 2,5A	24Vdc; 5,0A (Adj. 24-28V, 120W max.)	-25 – 80°C (-2,5% / °C above 50°C)	T4
<b>DRP024V240W1BX</b>	100-240V; 50-60Hz; 3,5A	24Vdc; 10,0A (Adj. 24-28V, 240W max.)	-25 – 80°C (-2,5% / °C above 50°C, vertical position) (-2,5% / °C above 40°C, horizontal position)	T4
<b>DRP024V480W1BX</b>	100-240V; 50-60Hz; 6,0A	24Vdc; 20,0A (Adj. 24-28V, 480W max.)	-25 – 75°C (-2,5% / °C above 50°C, vertical position) (-5% / °C above 70°C, vertical position)	T4
<b>DRP048V060W1BX</b>	100-240V; 50-60Hz; 1,5A	48Vdc; 1,25A (Adj. 48-56V, 60W max.)	-25 – 80°C (-2,5% / °C above 50°C)	T4
<b>DRP048V120W1BX</b>	100-240V; 50-60Hz; 2,5A	48Vdc; 2,5A (Adj. 48-56V, 120W max.)	-25 – 80°C (-2,5% / °C above 50°C, vertical position) (-2,5% / °C above 50°C, horizontal position) (-3,5% / °C above 70°C, horizontal position)	T4
<b>DRP048V240W1BX</b>	100-240V; 50-60Hz; 3,5A	48Vdc; 5A (Adj. 48-56V, 240W max.)	-25 – 80°C (-2,5% / °C above 50°C, vertical position) (-2,5% / °C above 40°C, horizontal position)	T4
<b>DRP048V480W1BX</b>	100-240V; 50-60Hz; 6,0A	48Vdc; 10A (Adj. 48-56V, 480W max.)	-25 -75°C (-2,5% / °C above 50°C, vertical position) (-5% / °C above 70°C, vertical position)	T4
<b>DRR-20X</b> (redundancy module)	22-60Vdc; 0-20A	Input -0,65Vdc; 20A	-40 – 80°C (-2,5% / °C above 50°C)	T4
<b>DRR-40X</b> (redundancy module)	22-60Vdc; 0-40A	Input -0,65Vdc; 40A	-40 – 80°C (-2,5% / °C above 50°C)	T4
<b>DRB-24V020ABX</b> (buffer module)	24Vdc; 20A	24Vdc; 20A (250ms), 1A (5s)	-25 – 75°C (-5% / °C above 70°C)	T4
<b>DRP024V060W1NX</b> (NEC Class 2)	100-240V; 50-60Hz; 1,5A	24Vdc; 2,5A (Adj. 24-28V, 60W max.)	-25 – 80°C (-2,5% / °C above 50°C) (-4% / °C above 70°C)	T4

- Suffix "X" may be any letter or digit, no safety relevant meaning.
- All models have a derating graph for ambient temperatures per the table above.

Notes:

- The unit was evaluated as component where the suitability of the combination must be determined with the end use product.
- The unit shall be provided with an appropriate disconnect device in the end use installation.
- The wiring terminals are intended for Field wiring.
- The equipment must be built inside a suitable enclosure.
- Each Apparatus is marked with the respective temperature range on the type label; the output rating must be derated according to the manufacturer's instructions.



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**APPLICABLE REQUIREMENTS**

CSA C22.2 No. 60950-1-07 2 <sup>nd</sup> Edition	-	Information Technology Equipment – Safety – Part 1: General Requirements
CSA-C22.2 No. 107.1-01	-	General Use Power Supplies -Industrial Products
CSA C22.2 No. 213-M1987	-	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
UL 60950-1 2 <sup>nd</sup> Edition	-	Information Technology Equipment – Safety – Part 1: General Requirements
ANSI/ISA–12.12.01–2011	-	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

**MARKINGS**

As per the Report MARKINGS section.



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70144147	2017-10-19	Update to report 2602911 to add alternate relays HF46F-G 12-HS1TF and HF46F-G 12-HS1TF (310) based on IECEx test data and reports.
2602911	2013-03-27	New Certification of Power Supply CliQ Series (16 Models) for use in Class I, Div. 2, Groups A,B,C & D, based on ATEX/IECEx Test Reports.