

# TYPE APPROVAL CERTIFICATE

DNV·GL

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No. **14 218 - 15 HH**

Company **Delta Electronics (Thailand) Public Co., Ltd.  
909 Soi 9, Moo 4, Bangpoo Industrial Estate (E.P.Z.)  
Pattana 1 Rd, Tambol Phraksa, Amphur Muang  
Samutprakarn 10280, THAILAND**

Product Description **DIN-Rail Power Supply**

Type **DRM-24V80W1PN(y), DRM-24V120W1PN(y)  
DRM-24V240W1PN(y), DRM-24V480W1PN(y)**

Environmental Category **C, EMC2**

Technical Data /  
Range of Application **Model code: DRM-24VxW1PN(y):**  
• x : 80, 120, 240, 480  
• (y) : any capital letter A~Z (excluding I, L, O, Q) or any digit 2~9 or blank  
**Input Rating:**  
• AC 100-240V, 50-60Hz; 1.0A (80), 1.4A (120), 2.75A (240), 5.5A (480)  
• DC 110-300V; 0.8A (80), 1.25A (120), 2.37A (240), 5.0A (480)  
**Output Rating:**  
• Voltage: 24V DC nominal (adjustable 24...28V DC)  
• Current: 3.4A (80), 5A (120), 10A (240), 20A (480) for voltage nominal  
**Output current/power:**  
De-rating of the output current/power to be observed according to  
the manufacturer's specification  
**LED Signals / Output contact:**  
• Green LED 'DC OK'  
• Red LED 'Overload'  
• Output Relay Contact 'DC OK'  
(max. contact rating: 30V / 1A, resistive load)  
**Mounting: DIN-Rail**  
**Degree of protection: IP 20**

Test Standard **Guidelines for the Performance of Type Approvals, Chapter 2- Test  
Requirements for Electrical / Electronic Equipment and Systems (VI-7-2),  
Edition 2012**

Documents **Test Reports: SIQ No. T211-0117/15, SIQ No. T251-0224/15  
Test Reports: SIQ No. T211-0504/15, SIQ No. T251-0568/15  
Test Reports: SIQ No. T211-0323/16, SIQ No. T251-0526/16  
Test Reports: SIQ T223-0066/15, SIQ T223-0316/15 (acc. to IEC 60950-1)  
Test Reports: SIQ T223-0244/15, SIQ T223-0535/15 (acc. to IEC 60950-1)  
Test Report : SIQ T223-0303/16 (acc. to IEC 60950-1)  
Construction Drawings; Circuit Diagrams; Installation Notes; Instr. Manuals  
Initial Assessment Report (90.02a) of 2015-05-11**

Remarks **Product approved by this certificate is accepted for installation on all vessels  
classed by DNV GL**

Valid until **2021-02-18**

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File No. **I.M.03**

**Hamburg, 2016-05-31**

Type Approval Symbol



  
Marco Rinkel

  
Dariusz Lesniewski

**DNV GL**