

BIS Scheme II (Compulsory Registration Scheme) Exemption Letter



To Whom It May Concern:

The Indian Ministry of Electronics and Information Technology (MEITY) requires BIS (Bureau of Indian Standards) certification and registration for many products of foreign manufacturers, when they are imported to India.

Products that fall under this regulation can be found in the BIS compulsory registration scheme (CRS) catalog: <https://www.bis.gov.in/product-certification/products-under-compulsory-certification/scheme-ii-registration-scheme/>

BIS certificates in accordance with the BIS CRS for use in Ordinary Locations (products for explosive environments require a PESO certification) are available for a selection of PULS power supplies and can be found on our website. The investigation is carried out in accordance with section 54 of the BIS catalog.

- 54.** *Information technology equipment – safety part 1 general requirements
Standalone Switch Mode Power Supplies (SMPS) with output voltage 48 V (max)
IS 13252 (Part 1) :2010*

PULS also supplies many products that do not currently fall into any of the categories in the BIS CRS catalog and therefore do not require registration. This Letter of Exemption lists these devices and provides the relevant reasons.

The following power supplies are not subject to BIS CRS registration as the output voltage can be greater than 48V:

CP5.481	Standard Power Supply, Input: AC 100-240V, DC 110-150V, Output: DC 48-56V, 2.5A, 120W
CP5.481-S1-C1	Same as CP5.481 but with quick-connect spring-clamp terminals and conformal coated pc-boards
CP10.481	Standard Power Supply, Input: AC 100-240V, DC 110-150V, Output: DC 48-56V, 5.4A, 260W
CP10.481-73	Customized Power Supply, Input: AC 230V, DC 400V, Output: DC 48V, 5A, 240W
CPS20.481	Standard Power Supply, Input: AC 100-240V, Output: DC 48-56V, 10A, 480W
CPS20.481-C1	Same as CPS20.481 but with conformal coated pc-boards
CS10.481	Standard Power Supply, Input: AC 100-240V, Output: DC 48-52V, 5A, 240W
CS10.481-72	Same as CS10.481 but with conformally coated pc-boards
CT10.481	Standard Power Supply, Input: 3AC 380-480V, Output: DC 48-56V, 5A, 240W
CT10.481-C1	Same as CT10.481 but with conformally coated pc-boards
DCM-20	Customized Power Supply, Input: AC 100-240V, DC 110V, Output: DC 48-56V, 10A, 480W
FPT500.481-002-101	Standard Power Supply, Input: 3AC 380-480V, Output: DC 48-52V, 12.5A, 600W
ML100.105	Standard Power Supply, Input: AC 100-120V/ 200-240V, Output: DC 48-56V, 2.1A, 100W
ML50.105	Standard Power Supply, Input: AC 100-240V, Output: DC 48-56V, 1.05A, 50W
PIC480.481D	Standard Power Supply, Input: AC 100-240V, Output: DC 48-56V, 10A, 480W
PIM90.481	Standard Power Supply, Input: AC 100-240V, Output: DC 48-56V, 1.9A, 90W
QS10.481	Standard Power Supply, Input: AC 100-240V, DC 110-150V, Output: DC 48-56V, 5A, 240W
QS10.481-A1	Same as QS10.481 but with conformal coating
QS10.481-C1	Same as QS10.481 but with conformal coated pc-boards
QS10.481-D1	Same as QS10.481 but with enhanced DC 110-300V DC-Input voltage range
QS20.481	Standard Power Supply, Input: AC 100-240V, DC 110-150V, Output: DC 48-55V, 10A, 480W
QS20.481-76	Same as QS20.481 but with preassembled ZM2.WALL wall mount bracket
QS20.481-C1	Same as QS20.481 but with conformal coated pc-boards
QS20.485	Same as QS20.481 but 5s Bonus Power and 6s recovery time
QS40.481	Standard Power Supply, Input: AC 100-240V, Output: DC 48-54V, 20A, 960W
QS40.484	Standard Power Supply, Input: AC 200-240V, Output: DC 48-54V, 20A, 960W
QS40.484-77	Customized Power Supply, Input: AC 200-240V, Output: DC 58V, 16.6A, 960W, modified signaling (for PCS422)
QS40.485	Same as QS40.481 but 5s Bonus Power and 6s recovery time
QT20.481	Standard Power Supply, Input: 3AC 380-480V, Output: DC 48-55V, 10A, 480W
QT20.481-70	Same as QT20.481 but factory set output voltage to 55Vdc, constant output current
QT20.485	Same as QT20.481 but 5s Bonus Power and 6s recovery time
QT40.481	Standard Power Supply, Input: 3AC 380-480V, Output: DC 48-54V, 20A, 960W
QT40.481-77	Same as QT40.481 but output voltage factory set to 58.5V, customized product
QT40.481-80	Same as QT40.481 but output voltage factory set to 50V, sealed voltage potentiometer
QT40.485	Same as QT40.481 but 5s Bonus Power and 6s recovery time
QT40.999-81	Customized Power Supply, Input: 3AC 380-480V, Output1: DC 300V, 4A, Output2: DC 162V, 2A, Total output power: 1200W

Disclaimer: This Letter reflects the views and findings of PULS GmbH. PULS GmbH is a power supply manufacturer and is not associated with BIS. BIS is authoritative in terms of defining, describing and interpreting the BIS CRS catalog's scope and is responsible for final decisions.

QT40.999-82	Customized Power Supply, Input: 3AC 380-480V, Output: DC 300-400V, 3.75A, Total output power: 1500W, fan included
SP960.481-S	Standard Power Supply, Input: AC 100-240V, Output: DC 48-56V, 20A, 960W
TP960.481	Standard Power Supply, Input: 3AC 380-500V, Output: DC 48-56V, 20A, 960W
TP960.484	Same as TP960.481 but with remote ON/OFF feature

The following power supplies with AC 100-120V input voltage are not subject to BIS CRS as this mains input voltage is not present in India and therefore these units can not be used there:

CS5.243	Standard Power Supply, Input: AC 100-120V, Output: DC 24-28V, 5A, 240W
CS10.243	Standard Power Supply, Input: AC 100-120V, Output: DC 24-28V, 10A, 240W

The following devices are not subject to BIS CRS as they are DC-DC converters for industrial use:

CD5.121	Standard DC-DC Converter, Input: DC 24V, Output: DC 12-15V, 8A, 96W
CD5.241	Standard DC-DC Converter, Input: DC 24V, Output: DC 24-28V, 5A, 120W
CD5.241-70	Same as CD5.241 but with conformal coated pc-boards, EMC for track-side railroad
CD5.241-79	Same as CD5.241 but with conformal coated pc-boards
CD5.241-L1	Same as CD5.241 but with quick-connect spring-clamp terminals and reduced NEC CLASS 2 output current of 3.8A
CD5.241-S1	Same as CD5.241 but with quick-connect spring-clamp terminals, DC-OK contact, input low contact and input low LED
CD5.242	Standard DC-DC Converter, Input: DC 48V, Output: DC 24-28V, 5A, 120W
CD5.243	Standard DC-DC Converter, Input: DC 12V, Output: DC 24-28V, 4A, 96W
CD5.051	Standard DC-DC Converter, Input: DC 24V, Output: DC 5-5.5V, 10A, 50W
CD10.241	Standard DC-DC Converter, Input: DC 24V, Output: DC 24-28V, 10A, 240W
CD10.242	Standard DC-DC Converter, Input: DC 48V, Output: DC 24-28V, 10A, 240W
CD10.482	Standard DC-DC Converter, Input: DC 48V, Output: DC 48-56V, 5A, 240W
CP10.241-60	Railroad DC-DC converter, Input: DC 96-110V, Output: DC 24-28V, 8.3A, 200W
CP20.241-60	Railroad DC-DC converter, Input: DC 96-110V, Output: DC 24-28V, 16.7A, 400W
CPS20.241-60	Railroad DC-DC converter, Input: DC 110V, Output: DC 24.5V, 16.3A, 400W
CPS20.241-D1	Standard DC-DC Converter, Input: DC 110-300V, Output: DC 24-28V, 20A, 480W
CPS20.241-D1-78	Same as CPS20.241-D1 but with preassembled ZM2.WALL wall mount bracket
CPS20.481-D1	Standard DC-DC Converter, Input: DC 110-300V, Output: DC 48-56V, 10A, 480W
CPS20.481-D1-79	Same as CPS20.481-D1 but with preassembled ZM2.WALL wall mount bracket
PIC120.241C-72	Customized DC-DC converter, DC 300V, Output: DC 24-28V, 5A, 120W
PIC240.241C-71	Customized DC-DC converter, DC 300V, Output: DC 24-28V, 10A, 240W
PIC480.241C-71	Customized DC-DC converter, DC 300V, Output: DC 24-28V, 20A, 480W
QS10.241-60	Railroad DC-DC converter, Input: DC 110V, Output: DC 24-28V, 8.3A, 200W
00.783.1002/01	Customized DC-DC Converter, Input: DC 370V, Output: DC 24.7V, 20A, (QS20.249)
QS5.241-60	Railroad DC-DC converter, Input: DC 110V, Output: DC 24-28V, 4.2A, 100W
QT40.241-D1	Customized DC-DC Converter, Input: DC 600V, Output: DC 24V, 40A, 960W
QT40.361-D1	Customized DC-DC Converter, Input: DC 600V, Output: DC 36V, 26.7A, 960W
QT40.481-D1-70	Customized DC-DC Converter, Input: DC 380V, Output: DC 55V, 17A, 960W
QTD20.241	Standard DC-DC Converter, Input: DC 600V, Output: DC 24-28V, 20A, 480W
QTD20.241-72	Same as QTD20.241 but with conformal coated pc-boards
QTD20.241-73	Same as QTD20.241 but with enhanced input transient resistance (1200V Mosfet)
SLAD4.100	AS-Interface DC-DC Converter, Input: DC 24V, Output: DC-ASi 30.6V, 4A, 122W

The following devices are not subject to BIS CRS as they are buffer modules, DC-UPSs and battery modules for industrial use with low DC input voltages:

UB10.241	Standard DC-UPS Control Unit, Input: DC 24V, Output: 10A, 3.9 to 40Ah
UBC10.241	Standard DC-UPS with Built-in Battery, Input: DC 24V, Output: 10A
UBC10.241-76	Same as UBC10.241 but without buffer time limiter
UBC10.241-N1	Same as UBC10.241 but battery not assembled
UC10.241	Standard DC-UPS with Capacitor Storage, Input: DC 24V, Output: 15A, 6kWs
UC10.241-70	Same as UC10.241 but input voltage DC 24.5V and buffer voltage 23.6V
UC10.242	Standard DC-UPS with Capacitor Storage, , Input: DC 24V, Output: 15A, 12kWs
UC10.242-72	Customized DC-UPS with Capacitor Storage, , Input: DC 24V, Output: 15A, 12kWs
UC10.242-73	Same as UC10.242 but with conformal coated pc-boards, customized product
UB10.241-72	Same as UB10.241 but buffering and replace battery signal inverted, customized product
UB10.241-73	Same as UB10.241 but replace battery signal inverted, customized product
UB10.242	Standard DC-UPS Control Unit, Input: DC 24V, Output: 10A, 17 to 130Ah
UB10.242-74	Same as UB10.241 but reduced charging current for battery sizes from 3.9 to 40Ah
UB10.245	Standard DC-UPS Control Unit, Input: DC 24V, Output1: DC 24V, 10A, Output2: DC 12V, 5A, 240W
UB20.241	Standard DC-UPS Control Unit, Input: DC 24V, Output: 20A, 3.9 to 150Ah
UB20.241-73	Same as UB20.241 but with conformal coated pc-boards, EMC for track-side railroad requirements
UB20.241-C1	Same as UB20.241 but with conformal coated pc-boards
UB40.241	Standard DC-UPS Control Unit, Input: DC 24V, Output: 40A, 12 to 200Ah
UF20.241	Standard Buffer Module, Supply voltage: 24V, Buffer current: 20A

Disclaimer: This Letter reflects the views and findings of PULS GmbH. PULS GmbH is a power supply manufacturer and is not associated with BIS. BIS is authoritative in terms of defining, describing and interpreting the BIS CRS catalog's scope and is responsible for final decisions.

UF20.481	Standard Buffer Module, Supply voltage: 48V, Buffer current: 20A
UF40.241	Standard Buffer Module, Supply voltage: 24V, Buffer current: 40A
UF40.241-70	Same as UF40.241 but with enhanced buffer time
UZK12.071	Standard Battery Module, 12V, 7Ah
UZK12.072	Standard Battery Module, 12V, 7Ah
UZK12.261	Battery Replacement, 12V, 26Ah
UZK24.071	Standard Battery Module, 24V, 7Ah
UZK24.121	Standard Battery Module, 24V, 12Ah
UZK24.122	Standard Battery Module, 24V, 12Ah for 40A DC-UPS
UZK24.262	Standard Battery Module, 24V, 12Ah for 40A DC-UPS
UZK24.262-E1	Standard Battery Module, 24V, 12Ah for 40A DC-UPS
UZO12.07	Same as UZK12.071 but battery not assembled
UZO12.072	Same as UZK12.072 but battery not assembled
UZO12.26	Same as UZK12.261 but battery not assembled
UZO24.071	Same as UZK24.071 but batteries not assembled
UZO24.121	Same as UZK24.121 but batteries not assembled
UZO24.122	Same as UZK24.122 but batteries not assembled
UZO24.262	Same as UZK24.262 but batteries not assembled
UZO24.262-E1	Same as UZK24.262 but batteries not assembled
UZS24.100	Standard Sensor Board for Battery Modules

The following devices are not subject to BIS CRS as they are protection modules (electronic fuses) for industrial use:

PISA11.203206	Standard Electronic Fuse Module, Input: DC 24V, Output: 2x3A and 2x6A
PISA11.206212	Standard Electronic Fuse Module, Input: DC 24V, Output: 2x6A and 2x12A
PISA11.401	Standard Electronic Fuse Module, Input: DC 24V, Output: 4x1A
PISA11.402	Standard Electronic Fuse Module, Input: DC 24V, Output: 4x2A
PISA11.403	Standard Electronic Fuse Module, Input: DC 24V, Output: 4x3A
PISA11.404	Standard Electronic Fuse Module, Input: DC 24V, Output: 4x4A
PISA11.406	Standard Electronic Fuse Module, Input: DC 24V, Output: 4x6A
PISA11.410	Standard Electronic Fuse Module, Input: DC 24V, Output: 4x10A
PISA11.CLASS2	Standard Electronic Fuse Module, Input: DC 24V, Output: 4x3.7A, NEC CLASS 2
PISA-B-812-B1	Standard Electronic Fuse Module, Input: DC 24V, Output: 8x1-12A adjustable, common signaling contact
PISA-B-812-B1-70	Custom Made Electronic Fuse Module, Input: DC 24V, Output: 8x1-12A adjustable, common signaling contact
PISA-B-812-B4	Standard Electronic Fuse Module, Input: DC 24V, Output: 8x1-12A adjustable, digitally coded individual signaling output
PISA-B-8CL2-B1	Standard Electronic Fuse Module, Input: DC 24V, Output: 8x3.75A NEC CLASS 2, common signaling contact
PISA-B-8CL2-B1-72	Custom Made Electronic Fuse Module, Input: DC 24V, Output: 8x3.75A NEC CLASS 2, common signaling contact, min 1s required push-time of ON/OFF push button
PISA-B-8CL2-B4	Standard Electronic Fuse Module, Input: DC 24V, Output: 8x3.75A NEC CLASS 2, digitally coded individual signaling
PISA-M-402	Standard Electronic Fuse Module, Input: DC 12/24V, Output: 4x2A max., digitally coded individual signaling output
PISA-M-404	Standard Electronic Fuse Module, Input: DC 12/24V, Output: 4x4A max., digitally coded individual signaling output
PISA-M-406	Standard Electronic Fuse Module, Input: DC 12/24V, Output: 4x6A max., digitally coded individual signaling output
PISA-M-408	Standard Electronic Fuse Module, Input: DC 12/24V, Output: 4x8A max., digitally coded individual signaling output
PISA-M-4ADJ	Standard Electronic Fuse Module, Input: DC 12/24V, Output: 4x1-8A adjustable, digitally coded individual signaling output
PISA-M-4CL2	Standard Electronic Fuse Module, Input: DC 12/24V, Output: 4x5/3.75A NEC CLASS 2, digitally coded individual signaling output

The following devices are not subject to BIS CRS as they are redundancy modules for industrial use:

MLY02.100	Standard Redundancy Module, Input: 2x DC 12-48V, Output: 10A
MLY10.241	Standard Redundancy Module, Input: 2x DC 12-48V, Output: 10A
PIRD20.241	Standard Redundancy Module, Input: 2x DC 12-28V, Output: 20A
YR2.DIODE	Standard Redundancy Module, Input: 2x DC 12-48V, Output: 20A, Spring-clamp terminals
YRM2.DIODE	Standard Redundancy Module, Input: 2x DC 24-48V, Output: 20A, input ok signals
YR20.242	Standard Redundancy Module, Input: 2x DC 12-28V, Output: 20A
YR20.246	Standard Redundancy Module, Input: 2x DC 24-28V, Output: 20A, automated load sharing
YR40.241	Standard Redundancy Module, Input: 2x DC 12-28V, Output: 40A, enhanced short-circuit current capability
YR40.242	Standard Redundancy Module, Input: 2x DC 12-28V, Output: 40A
YR40.245	Standard Redundancy Module, Input: DC 12-28V, Output: 40A
YR40.482	Standard Redundancy Module, Input: 2x DC 24-56V, Output: 40A

Disclaimer: This Letter reflects the views and findings of PULS GmbH. PULS GmbH is a power supply manufacturer and is not associated with BIS. BIS is authoritative in terms of defining, describing and interpreting the BIS CRS catalog's scope and is responsible for final decisions.

YR80.241 Standard Redundancy Module, Input: 2x DC 12-28V, Output: 80A, enhanced short-circuit current capability
YR80.242 Standard Redundancy Module, Input: 2x DC 12-28V, Output: 80A

PULS GmbH
Global Market Access
Elektrastr. 6
81925 Munich
Germany

This document is valid without signature.