Yokogawa PW482-10

Technical Reference

Yokogawa PW482-10 is a 220 to 240 V AC power-supply execution for supported field control and I/O node units.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Accepts 220 to 240 V AC input.

Feature 2

Connects through the unit's exclusive power connector.

Feature 3

Installs in supported FCU, FIO and optical repeater units.

Feature 4

Supports a two-module dual-redundant power arrangement.

VERIFIED DATA SNAPSHOT

Input voltage	220 to 240 V AC ±10%
Input frequency	50/60 Hz ±3 Hz
Maximum power consumption	230 VA
Interface	Exclusive connector
Installation units	FCU, FIO Node Unit and Optical ESB Bus Repeater Unit
Redundancy	Two-module dual-redundant configuration
Output use	Exclusive internal unit power; not a generic supply

SYSTEM RELATIONSHIP

Field device → **Product interface** → **System channel** → **Verified response**

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Technical profile

Verified technical values for the complete product string are arranged below for selection and engineering review.

Input voltage	220 to 240 V AC ±10%
Input frequency	50/60 Hz ±3 Hz
Maximum power consumption	230 VA
Interface	Exclusive connector
Installation units	FCU, FIO Node Unit and Optical ESB Bus Repeater Unit
Redundancy	Two-module dual-redundant configuration
Output use	Exclusive internal unit power; not a generic supply

SELECTION ANCHORS

- Accepts 220 to 240 V AC input.
- Connects through the unit's exclusive power connector.
- Installs in supported FCU, FIO and optical repeater units.
- Supports a two-module dual-redundant power arrangement.

IMPORTANT NOTICE	Use the values as one matched configuration. Do not substitute a nearby ordering code without a separate check.

CONFIGURATION CONTROL

Configuration identity	Yokogawa PW482-10
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

ADDITIONAL ENGINEERING CHECKS

Which connector must be checked on Yokogawa PW482-10?	The module uses the unit's exclusive power connector; inspect alignment, contact condition and retention.
What should be observed after energizing Yokogawa PW482-10?	Confirm normal unit power, absence of supply faults, healthy companion-module status and uninterrupted controller or node operation.

System role and architecture

Field device → **Product interface** → **System channel** → **Verified response**

APPLICATION POINTS

Field control unit power

Supplies compatible FCU internal electronics.

FIO node power

Feeds supported field I/O node units.

Optical ESB repeater power

Operates the documented bus repeater unit.

Redundant station supply

Pairs two modules to maintain the configured dual power path.

INTEGRATION RECORD

Identity	Record the complete marking and installed position.
Mechanical interface	Confirm mounting, support, clearance and connector engagement.
Electrical interface	Confirm signal path, shield, common and receiving-channel assignment.
Configuration	Retain the controlled channel settings and acceptance criteria.
Functional evidence	Record the expected static value, dynamic response and system status.

PW482-10 should be matched to the documented system position, companion hardware and retained project configuration before the channel or station is returned to control.

ENGINEERING REVIEW QUESTIONS

Which mains range is specified for Yokogawa PW482-10?	The module accepts 220 to 240 V AC with a tolerance of ±10 percent.
How tightly is input frequency defined for Yokogawa PW482-10?	The documented input is 50 or 60 Hz with a tolerance of ±3 Hz.
What is the maximum input demand of Yokogawa PW482-10?	Maximum power consumption is 230 VA.
Can Yokogawa PW482-10 be wired as a generic external power supply?	No. Yokogawa specifies it as an exclusive module for supported control and node units, so external output ratings are not defined.

Engineering checks and acceptance

PRODUCT PRECAUTIONS

01	Confirm the full PW482-10 marking and assigned power slot.
02	Record incoming voltage, breaker and redundant-module status.
03	Isolate both supply paths before removing the module.
04	Do not use the module as a general-purpose external DC supply.
05	Inspect the exclusive connector and retention hardware.
06	Install the module without disturbing the companion supply.
07	Energize one documented path at a time and watch fault indications.
08	Verify unit power, redundancy and controller or node operation before release.

RELEASE EVIDENCE

Exact identity	Product marking and intended system position agree.
Interface condition	Mounting, connectors, terminals and cable routing are secure.
Signal response	The expected static and dynamic behavior has been observed.
Protection state	Channel status, alarms and controlled bypass state are restored.

IMPORTANT NOTICE	Confirm the complete PW482-10 marking, assigned system position and mating interfaces before installation.

APPLICATION BOUNDARIES

Field control unit power	Supplies compatible FCU internal electronics.
FIO node power	Feeds supported field I/O node units.
Optical ESB repeater power	Operates the documented bus repeater unit.
Redundant station supply	Pairs two modules to maintain the configured dual power path.

Technical questions and related models

MODEL-SPECIFIC QUESTIONS

Which mains range is specified for Yokogawa PW482-10?	The module accepts 220 to 240 V AC with a tolerance of ±10 percent.
How tightly is input frequency defined for Yokogawa PW482-10?	The documented input is 50 or 60 Hz with a tolerance of ±3 Hz.
What is the maximum input demand of Yokogawa PW482-10?	Maximum power consumption is 230 VA.
Can Yokogawa PW482-10 be wired as a generic external power supply?	No. Yokogawa specifies it as an exclusive module for supported control and node units, so external output ratings are not defined.
Which units accept Yokogawa PW482-10?	Supported installations include field control units, FIO node units and Optical ESB Bus Repeater Units.
How is dual redundancy obtained with Yokogawa PW482-10?	Install two documented power modules in the supported unit to form the dual-redundant supply configuration.

RELATED MODELS ON APTERPOWER

Yokogawa AAI841-H00 S2	Related product reference. Review the complete ordering string before selection.
Yokogawa AAR181-S50 S2	Related product reference. Compare the required interface and system position.
Yokogawa HHR-11F2A1	Related product reference. Confirm the execution independently for the intended task.

CONFIGURATION AND SELECTION RECORD

Configuration identity	Yokogawa PW482-10
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

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General Specifications

GS 33J60E70-01EN

PW481, PW482, PW484
100-120 V AC Input Power Supply Module
220-240 V AC Input Power Supply Module
24 V DC Input Power Supply Module

CENTUM VP

[Release 6]

■ GENERAL

This General Specifications (GS) describes the hardware specifications of Power Supply Module. This model can be installed in Field Control Unit (FCU), FIO Node Unit or Optical ESB Bus Repeater Unit. Dual-redundant power supply can be configured by installing 2 modules.

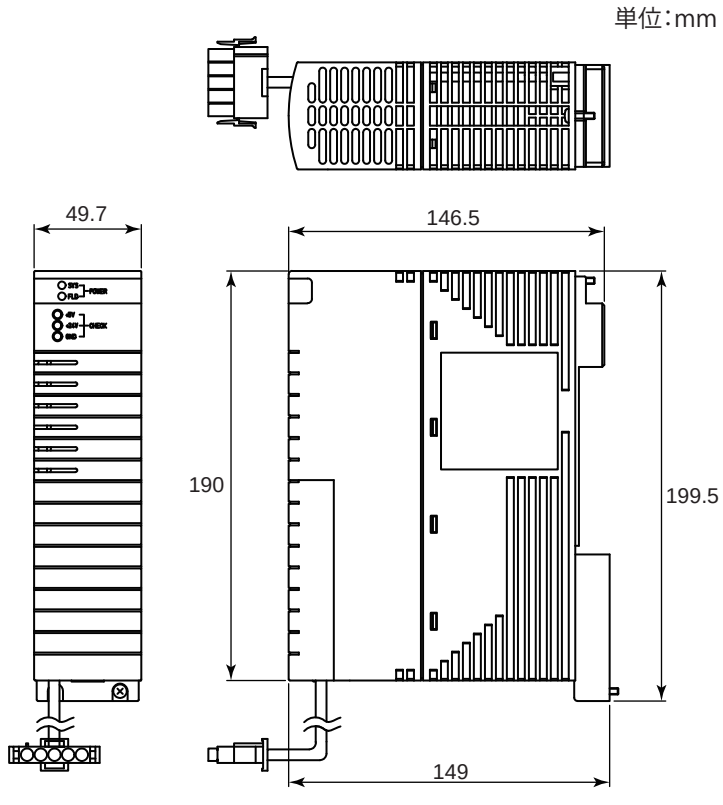
■ STANDARD SPECIFICATIONS[S2]

Item	Specifications		
Model	**PW481**	**PW482**	**PW484**
Input power supply voltage	100~120 V AC ± 10 % 50/60 Hz ± 3 Hz	220~240 V AC ± 10 % 50/60 Hz ± 3 Hz	24 V DC ± 10 %
Maximum power consumption	200 VA	230 VA	5.5 A
Weight	Approx. 1 kg	Approx. 1 kg	Approx. 1 kg
Input/Output interface	Exclusive connector	Exclusive connector	Exclusive connector

Note: Other specifications are the same as that of FCU, FIO Node Unit and Optical ESB Bus Repeater Unit.
Refer to “Installation Guidance” (TI 33J01J10-01JA).
Note: The output voltage and current are not specified, because PW48☐ cannot be used as a generic power supply module.
PW48☐ is an exclusive module for FCU, FIO Node Unit and Optical ESB Bus Repeater Unit.

■ EXTERNAL DIMENSIONS

単位：mm



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Nominal tolerances :
Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.
The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

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■ INSTALLATION

Power Supply Module(PW481, PW482, PW484) can be installed in the following units.

FCU: AFV30D, AFV30S, A2FV50D, A2FV50S, A2FV70D, A2FV70S
FIO Node Unit: ANB10D, ANB10S, ANB11D, ANB11S
Optical ESB Bus Repeater Unit: ANT10U
Base Plate: A2BE1D, A2BE2D

<Installation Restrictions>

- Power Supply Module must be installed in slots P1-P2.
- In the case of single configuration, Power Supply Module must be installed in slot P1.
- Dual-redundant configuration is enabled by installing 2 identical modules with the same model code.

■ ORDERING INFORMATION

● 100 - 120 V AC Input Power Supply Module

		Description
Model	PW481	100 - 120V AC Input Power Supply Module
Suffix Codes	-5	Standard type with no explosion protection
	-E	Standard type with explosion protection
	0	Basic type
	1	With ISA Standard G3 option with temperature (-20°C to 70°C)

● 220 - 240 V AC Input Power Supply Module

		Description
Model	PW482	220 - 240V AC Input Power Supply Module
Suffix Codes	-5	Standard type with no explosion protection
	-E	Standard type with explosion protection
	0	Basic type
	1	With ISA Standard G3 option with temperature (-20°C to 70°C)

● 24 V DC Input Power Supply Module

		Description
Model	PW484	24V DC Input Power Supply Module
Suffix Codes	-5	Standard type with no explosion protection
	-E	Standard type with explosion protection
	0	Basic type
	1	With ISA Standard G3 option with temperature (-20°C to 70°C)

■ APPLICABLE STANDARDS

Refer to “Integrated Production Control System CENTUM VP System Overview (GS 33J01A10-01EN).”

■ ORDERING INFORMATION

Specify model and suffix codes.

For selecting the right products for explosion protection, please refer to TI 33Q01J30-01E without fail.

■ TRADEMARK ACKNOWLEDGMENT

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