01 / Job scope and power boundary

BENTLY NEVADA

3300/14-01-20-02

DC Power Supply

Scope

Plan installation or replacement of 3300/14-01-20-02 in a matched 3300 monitoring rack. The ordered input is 20–34 Vdc; the selected rear module is Standard Power Input Module.

Identify
Supply and rear module

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Match
Backplane and monitors

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Verify
Power and annunciation

Ordered selection	Required review
Input	20–34 Vdc; maximum 5.5 A
Rear module	Standard Power Input Module
Approval	ATEX self-certification option (02)

Controlled outage

Removing rack power interrupts machinery monitoring and protection. Qualified personnel must apply the site isolation and machinery-protection procedure before removing the supply, System Monitor or rear module.

02 / Readiness and configuration

Review item	Acceptance relationship	Evidence to retain
Full marking	3300/14-01-20-02 and actual assembly revision	Module label and unit photos
Primary input	20–34 Vdc; 5.5 A maximum	Measured source and approved wiring
Power Input Module	Standard Power Input Module	Rear-module identity and field wiring
Transducer selection	-24 Vdc (+1.3%/-1.7%) or -18 Vdc (+1.6%/-2.2%)	Actual Power Supply PWA jumper
Rack generation	System Monitor, backplane and firmware agree	Rack configuration and compatibility review
Approval conditions	ATEX self-certification option (02)	Actual marking and approved installation

Compatibility decision

Review the System Monitor, backplane and monitor firmware together. A 3300/14 used with an Original backplane requires an Original Power Input Module, and it is not compatible with the 3300/01-02 System Monitor.

03 / Replacement planning sequence

Before isolation
Record configuration

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During outage
Follow original instructions

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Before release
Verify rack integrity

1. Establish the installed arrangement

Record the full supply marking, System Monitor, backplane, monitor firmware and Power Input Module. Resolve a generation or approval mismatch before work.

2. Confirm the power selection

The ordered input is +26 Vdc nominal, 20–34 Vdc. Verify the DC source and polarity. The input-range protection does not replace isolation or correct field wiring.

3. Preserve transducer configuration

Check the Power Supply PWA jumper that selects -18 Vdc or -24 Vdc. The monitors and associated transducers determine the required setting; keep the intended channel configuration.

4. Restore under site control

After completing the manufacturer installation procedure, use the approved rack commissioning plan. Verify channel condition and external fault annunciation before returning machinery protection to service.

04 / Commissioning acceptance

Check	Expected relationship	If inconsistent
Input supply	20–34 Vdc within the specified range	Resolve source and configuration before release
Rack capacity	One supply supports up to 12 monitors and associated transducers	Check the complete installed arrangement
Transducer supply	-24 Vdc (+1.3%/-1.7%) or -18 Vdc (+1.6%/-2.2%)	Recheck the jumper and channel requirements
OK relay	Normally energized SPDT relay; external annunciation follows the rack design	Review primary power, monitor condition and critical wiring
Rear module	PIM matches the backplane and field wiring	Resolve the generation or connection mismatch
Approval	ATEX self-certification option (02)	Check the actual marking and installation conditions

Acceptance record

Record the final input configuration, rear-module identity, transducer-supply selection, System Monitor and backplane. Retain verification results and any approved replacement guidance.

05 / Fault review and service handover

Power or OK indication changes

An out-of-range DC input causes supply shutdown; operation resumes when input returns within range. Check the source and polarity before investigating the downstream monitoring channels.

Approval and support

The ATEX option requires a weatherproof rack housing and installation under the applicable approval conditions; the general operating range does not override those conditions.

Reference basis

Bently Nevada 3300/14 DC Power Supply, 141497-01 Rev. J; Bently Nevada 3300 System Compatibility Guide, 104003-01 Rev. G.

Apter Power planning summary, not a Bently Nevada-issued installation manual. Apply the original manufacturer instructions and approved site procedures.

Related Bently Nevada products

Navigation only; no compatibility or substitution claim.

Bently Nevada 3300/14-01-22-00

Bently Nevada 3300/03-02-01

Bently Nevada 3300/55-01-04-02-02-00-00-05-00

Discuss your installed rack

Send the complete supply marking, input and rack configuration.

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