01 / Power-supply dashboard

BENTLY NEVADA

3300/14-01-20-02

DC Power Supply

Rack role

Bently Nevada 3300/14-01-20-02 is a 3300/14 DC power supply for 3300 monitoring racks, configured for 20–34 Vdc input and a standard Power Input Module.

Ordered input

20–34 Vdc; 5.5 A maximum

Power Input Module

Standard Power Input Module

Rack capacity

Up to 12 monitors and associated transducers

Approval selection

ATEX self-certification option (02)

02 / Electrical and environmental profile

Domain	Documented characteristic	Application condition
Primary supply	20–34 Vdc; 5.5 A maximum	+26 Vdc nominal; observe polarity and input range
Transducer power	-24 Vdc (+1.3%/-1.7%) or -18 Vdc (+1.6%/-2.2%)	Jumper-selected on the Power Supply PWA
Protection	Individual-channel overload protection	Provided on the monitor circuit boards
OK relay	Hermetically sealed SPDT; normally energized	On the Power Input Module behind the supply
Environment	General operation 0 to +65 °C; storage -40 to +85 °C	95% RH noncondensing; approval conditions can be more restrictive

Configuration boundary

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

03 / Rack integration and applications

System arrangement

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.

3300 rack power

Supply a matched 3300 monitoring rack from 20–34 Vdc. One supply supports up to 12 monitors and their associated transducers.

Transducer supply selection

Select the -24 Vdc or -18 Vdc transducer supply through the Power Supply PWA jumper. Match the selection to the installed monitors and transducers.

Rack fault annunciation

Connect the normally energized OK relay to an external annunciator under the approved rack wiring design. A loss of primary power or monitoring integrity must be visible to operators.

Power-input integration

Use the standard Power Input Module with the specified supply and compatible rack backplane. Review the System Monitor and monitor firmware before replacement.

04 / Selection and service decisions

Confirm the input selection

Check 20–34 Vdc, maximum input current 5.5 A, and the actual module configuration before connecting power. Observe DC polarity and the permitted input range.

Match the rack generation

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.

Check the Power Input Module

Standard Power Input Module is the ordered selection. Confirm the actual rear module and field wiring; do not interchange backplane generations without the applicable compatibility review.

Set the transducer supply

Verify the -18 Vdc / -24 Vdc jumper against the installed transducers and monitoring channels. A supply replacement must preserve the intended channel configuration.

Respect approval conditions

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

Plan loss of protection

Isolate rack power before removal and follow the site machinery-protection procedure. Restore and verify rack indications and external OK-relay annunciation before releasing the system.

05 / Support, references and related products

Lifecycle and supply

A current manufacturer lifecycle phase has not been confirmed for 3300/14-01-20-02. Request current Bently Nevada support and replacement guidance using the complete marking and installed rack configuration. Apter Power availability is confirmed separately in the quotation.

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 3300/12-01-20-01

Bently Nevada 3300/12-02-22-00

Bently Nevada 3300/14-01-20-00

Discuss your installed rack

Send the complete supply marking, input and rack configuration.

sales13@apterpower.com | +86 18030235313