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Find the *National Instruments PS-15* at our website: *Click HERE*

Technical Sales

(866) 531-6285
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For user manuals and dimensional drawings, visit the product page resources tab on ni.com.

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Industrial Power Supplies

NI PS-14, NI PS-15, NI PS-16, NI PS-17



- 24 VDC power supplies for CompactRIO, NI CompactDAQ, NI Single-Board RIO, NI Smart Cameras, and NI touch panel computers
- Full output power between -25 °C and +60 °C
- 115 V/230 V autoselect input
- Efficiencies up to more than 90 percent
- Low input rush current
- 20 or 50 percent power reserves for dynamic loads (NI PS-15 and NI PS-16)
- Toolless spring-clamp terminals for easy field connectivity
- DIN-rail mounting included and panel/side mount accessories available
- -25 °C to 70 °C operating temperature range

Overview

The NI PS-14, PS-15, PS-16, and PS-17 industrial power supplies feature long expected life, generous power reserves, and compact size. The 24 V supplies are ideal for powering any NI CompactRIO, NI Single-Board RIO, NI Smart Camera, NI touch panel computer, NI CompactDAQ, or NI Compact FieldPoint system, as well as heavy accessory loads such as DC motor drives. The DIN-rail system and spring clamp terminals do not require tools and make installation fast and easy. The wide range and autoselect input voltages help you avoid user errors. The wide operating temperature range and extraordinary EMI immunity enables trouble-free operation even under harsh conditions. Depending on the device, NI industrial power supplies guarantee power reserves of 20 to 50 percent. For the PS-15 and PS-16, you can use this extra current continuously for ambient temperatures under 45 °C. With these power reserves, you may not need to oversize for dynamic loads, but you can simply choose a unit that meets the operating requirements. In some cases, you can select a smaller unit to save money and space.

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Comparison Tables

Product	Output Voltage (V)	Output Current (A)	Output Power (W)	Input Voltage	Temperature Range (°C)	Size WxHxD (mm)	Weight (g)	Part Number
PS-14	24 to 28	3.3	80	100 to 240 VAC/110 to 375 VDC	-25 to +70	32 x 124 x 102	430	783167-01
PS-15	24 to 28	5	120	90 to 132/180 to 264 VAC	-25 to +70	32 x 124 x 117	500	781093-01
PS-16	24 to 28	10	240	90 to 132/180 to 264 VAC	-25 to +70	60 x 124 x 117	700	781094-01
PS-17	24 to 28	20	480	85 to 276 VAC/110 to 150 VDC	-25 to +70	82 x 124 x 127	1200	781095-01

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Application and Technology

Mounting Options

The PS-14/15/16/17 power supplies include clips for DIN-rail mounting. National Instruments provides optional accessories for wall, panel, and side mounting to minimize installation depth. You can couple the included DIN-rail mounting bracket with the side mount kit for a low-profile DIN-rail installation.

Part Number	Product	Installed Width (mm)	Installed Height (mm)	Installed Depth (mm)	Bracket Weight (g)
	Panel Mount Kit for				

199432-01	PS-14/15/16/17	Equal to PS Width	143	PS Depth +7	50
199429-01	Side Mount Kit for PS-14/15	118	145	38 (Panel)/44 (DIN)	140
199430-01	Side Mount Kit for PS-16	118	145	66 (Panel)/72 (DIN)	180
199431-01	Side Mount Kit for PS-17	138	145	88 (Panel)/94 (DIN)	205

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Support and Services

System Assurance Programs

NI system assurance programs are designed to make it even easier for you to own an NI system. These programs include configuration and deployment services for your NI PXI, CompactRIO, or Compact FieldPoint system. The NI Basic System Assurance Program provides a simple integration test and ensures that your system is delivered completely assembled in one box. When you configure your system with the NI Standard System Assurance Program, you can select from available NI system driver sets and application development environments to create customized, reorderable software configurations. Your system arrives fully assembled and tested in one box with your software preinstalled. When you order your system with the standard program, you also receive system-specific documentation including a bill of materials, an integration test report, a recommended maintenance plan, and frequently asked question documents. Finally, the standard program reduces the total cost of owning an NI system by providing three years of warranty coverage and calibration service. Use the online product advisors at ni.com/advisor to find a system assurance program to meet your needs.

Calibration

NI measurement hardware is calibrated to ensure measurement accuracy and verify that the device meets its published specifications. To ensure the ongoing accuracy of your measurement hardware, NI offers basic or detailed recalibration service that provides ongoing ISO 9001 audit compliance and confidence in your measurements. To learn more about NI calibration services or to locate a qualified service center near you, contact your local sales office or visit ni.com/calibration.

Technical Support

Get answers to your technical questions using the following National Instruments resources.

- **Support** - Visit ni.com/support to access the NI KnowledgeBase, example programs, and tutorials or to contact our applications engineers who are located in NI sales offices around the world and speak the local language.
- **Discussion Forums** - Visit forums.ni.com for a diverse set of discussion boards on topics you care about.
- **Online Community** - Visit community.ni.com to find, contribute, or collaborate on customer-contributed technical content with users like you.

Repair

While you may never need your hardware repaired, NI understands that unexpected events may lead to necessary repairs. NI offers repair services performed by highly trained technicians who quickly return your device with the guarantee that it will perform to factory specifications. For more information, visit ni.com/repair.

Training and Certifications

The NI training and certification program delivers the fastest, most certain route to increased proficiency and productivity using NI software and hardware. Training builds the skills to more efficiently develop robust, maintainable applications, while certification validates your knowledge and ability.

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Visit ni.com/training for more information.

Extended Warranty

NI offers options for extending the standard product warranty to meet the life-cycle requirements of your project. In addition, because NI understands that your requirements may change, the extended warranty is flexible in length and easily renewed. For more information, visit ni.com/warranty.

OEM

NI offers design-in consulting and product integration assistance if you need NI products for OEM applications. For information about special pricing and services for OEM customers, visit ni.com/oem.

Alliance

Our Professional Services Team is comprised of NI applications engineers, NI Consulting Services, and a worldwide National Instruments Alliance Partner program of more than 700 independent consultants and integrators. Services range from start-up assistance to turnkey system integration. Visit ni.com/alliance.

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