

Sun™ Rack II

Optimize your space



The two models of the new Sun™ Rack II offer your datacenter ease of use, flexibility, and optimal application of your limited space to bring better ROI and utilization to your IT infrastructure. Offering 42U capacity, these innovative, industry-standard 19 in. racks pack the maximum number of components, cables, and accessories into two floor tiles of space while providing the power infrastructure that you need.

Highlights

- Optimized for vertical density
- Choice of 1,058mm or 1,200mm in depth
- Highest-capacity power in two of the smallest footprints available
- Easy-to-install, compact power distribution units (PDUs) with phase-current metering capabilities
- Ease of use and maintenance in robust and safe designs capable of shipping fully loaded
- Consistency with the latest Sun rackmount products for a uniform look in the datacenter

The Sun Rack II product line is the ideal platform for installing Sun rackmounted products into a variety of datacenter environments. This robust and cost-effective family of racks is optimized for vertical density and provides a uniform appearance in your datacenter when installed with the latest Sun servers and storage products. The racks can be purchased with a strong shipping pallet for transport when fully integrated with components. They offer an assortment of zero RU, easily installed, metered power distribution units (PDUs) for maximal rack power capacity in a minimal footprint. In addition, they have been optimized for cooling, and both front and rear doors have 80% perforations that provide a high level of airflow through the rack. Sun also provides factory or onsite installation and implementation services for the Sun Rack II with the comprehensive SunSM Customer Ready program and Enterprise Installation Services (EIS).

Features of the Sun Rack II include:

- 42U high, choice of 1,058mm or 1,200mm in depth, 600mm wide, with industry standard 19 in. adjustable square-hole RETMA rails — can accommodate most Sun and third-party rackmountable IT equipment
- Selection of zero RU PDU options with various input and output connectors — provide highest density in the lowest profile
- 80% door perforations — enable a high level of airflow through cabinet
- Extruded aluminum frame and reduced rack height — lighter, easier to handle, can be safely rolled through most standard doorways
- 1,005 kg (2,215 lbs.) maximum load — a rugged platform that users can populate with more components; available with enterprise packaging to enable safe shipment

Sun Rack II Specifications

PDUs

- Selection of 14 different PDUs, from 5 kVA to 37 kVA, available in single- and three-phase, low- and high-voltage versions, with 14 up to 45 C13 and 2 up to 9 C19 available outlets on a single PDU
- Designed for quick and easy installation, each easy-to-mount PDU takes up zero RU, enabling higher vertical density and providing unobstructed access to rear FRUs and accessories
- Flexibility to add or change PDUs based upon new datacenter wiring — can be upgraded with higher-density PDUs
- SRack-level power metering capability with an LCD PDU display screen and a remote network connection — and an ability to set threshold and alarm levels — prevents overloaded circuits by providing a visible warning when the current draw is close to the maximum amperage draw of the PDU strip

Stabilization features

- Two foldaway antitilt bars inside the rack to ensure balance and prevent tipping during equipment service from the front
- Four leveling feet that can be lowered to the floor
- Four floor-mounting brackets for extra safety

Dimensions

Height:	199.8cm (78.7 in.)
Width:	60cm (23.6 in.)
Depth, model 1242:	120cm (47.2 in.)
Depth, model 1042:	105.8cm (41.66 in.)
Weight, model 1242:	150.6 kg (332 lbs.) empty
Weight, model 1042:	123.4 kg (272 lbs.)
Usable rack units:	42
Depth between front and rear RETMA rails:	685.8mm (27 in.) adjustable from 61.5mm (24.2 in.) to 825.8mm (32.4 in.)

Learn More

To learn more about the Sun Rack II, go to:
sun.com/servers/rack/sunrack2

Max. dynamic load: 1,005 kg (2,215 lbs.)
Note: Racks can be shipped with max. load if Enterprise packaging is used (models 1242E and 1042E).

Maintenance access requirement for rear:	91.4cm (36 in.)
Maintenance access requirement from top:	91.4cm (36 in.)
Depth, model 1242:	120cm (47.2 in.)

Relevant standards supported

EIA 310-D

Warranty

Duration:	One year
Hardware response times:	Next business day

Specifications for Low-Voltage PDUs

	5 kVA, 1 ph Compact	5 kVA, 1 ph	10 kVA, 1 ph	15 kVA, 1 ph	15 kVA, 3 ph	24 kVA, 3 ph	37 kVA, 3 ph
AMPs per PDU	24 A	24 A	48 A (2 x 24 A)	72 A (3 x 24 A)	69 A (3 x 23 A)	120 A (6 x 20 A)	180 A (9 x 20 A)
Outlets	14 C13 and 2 C19	42 C13 and 6 C19	42 C13 and 6 C19	42 C13 and 6 C19	42 C13 and 6 C19	42 C13 and 6 C19	45 C13 and 9 C19
Number of inputs	One 30 A 1 ph	One 30 A 1 ph	Two 30 A 1 ph	Three 30 A 1 ph	One 60 A 3 ph	Two 60 A 3 ph	Three 60 A 3 ph
Current	24 A max.	24 A max.	24 A max. per input	24 A max. per input	40 A max. per phase	34.6 A max. per phase	34.6 A max. per phase
Datacenter receptacle	NEMA L6-30R	NEMA L6-30R	NEMA L6-30R	NEMA L6-30R	IEC 309-3P4W-IP67 60 A 250 V AC 3 ph	IEC 309-3P4W-IP67 60 A 250 V AC 3 ph	IEC 309-3P4W-IP67 60 A 250 V AC 3 ph
Rack compatibility	Models 1242 and 1042	Models 1242 and 1042	Models 1242 and 1042	Models 1242 and 1042	Model 1242	Model 1242	Model 1242

Specifications for High-Voltage PDUs

	5 kVA, 1 ph Compact	5 kVA, 1 ph	10 kVA, 1 ph	15 kVA, 1 ph	15 kVA, 3 ph	24 kVA, 3 ph	37 kVA, 3 ph
AMPs per PDU	24 A	24 A	48 A (2 x 24 A)	72 A (3 x 24 A)	62.7 A (3 x 20.9 A)	109 A (6 x 18.1 A)	163 A (9 x 18.1 A)
Outlets	14 C13 and 2 C19	42 C13 and 6 C19	42 C13 and 6 C19	42 C13 and 6 C19	42 C13 and 6 C19	42 C13 and 6 C19	45 C13 and 9 C19
Number of inputs	One 25 A 1 ph	One 25 A 1 ph	Two 25 A 1 ph	Three 25 A 1 ph	One 25 A 3 ph	Two 25 A 3 ph	Three 25 A 3 ph
Current	25 A max.	25 A max.	25 A max. per input	25 A max. per input	25 A max. per phase	18 A max. per phase	18 A max. per phase
Datacenter receptacle	IEC 309-2P3W-IP44 32 A 250 V AC 3 ph	IEC 309-2P3W-IP44 32 A 250 V AC 3 ph	IEC 309-2P3W-IP44 32 A 250 V AC 3 ph	IEC 309-2P3W-IP44 32 A 250 V AC 3 ph	IEC 309-4P5W-IP44 32 A 400 V AC 3 ph	IEC 309-4P5W-IP44 32 A 400 V AC 3 ph	IEC 309-4P5W-IP44 32 A 400 V AC 3 ph
Rack compatibility	Models 1242 and 1042	Models 1242 and 1042	Models 1242 and 1042	Models 1242 and 1042	Model 1242	Model 1242	Model 1242



Sun Microsystems, Inc. 4150 Network Circle, Santa Clara, CA 95054 USA Phone 1-650-960-1300 or 1-800-555-9SUN Web sun.com



© 2009 Sun Microsystems, Inc. All rights reserved. Sun, Sun Microsystems, and the Sun logo are trademarks or registered trademarks of Sun Microsystems, Inc., or its subsidiaries in the United States and other countries. Information subject to change without notice. Printed in USA SunWIN #545304 Lit.#SYDS14614-2 10/09