

PowerEdge R640 Information Update - Tech Sheet

Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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Overview

The information in this document supersedes the information in the pertinent sections of the Installation and Service Manual, BIOS and UEFI Reference Guide, and Technical Specifications

For a complete list of information, see the documents available at <https://www.dell.com/poweredgemanuals>

Topics:

- Revision history

Revision history

This section provides a description of document changes.

Table 1. Document Revision history

Document Revision	Date	Description of changes
2	Nov, 2022	1. Updated psu_specification
1	June, 2022	1. Updated storage_controller 2. Updated system_profile_settings

Information Update

Topics:

- PSU specifications

PSU specifications

The PowerEdge R640 system supports up to two AC or DC power supply units (PSUs).

Table 2. PSU specifications

PSU	Class	Heat dissipation (maximum)	Frequency	Voltage
495 W AC	Platinum	1908 BTU/hr	50/60 Hz	100–240 V AC, autoranging
750 W AC	Platinum	2891 BTU/hr	50/60 Hz	100–240 V AC, autoranging
750 W Mixed Mode AC	Platinum	2891 BTU/hr	50/60 Hz	100–240 V AC, 10 A - 5 A
750 W AC	Titanium	2843 BTU/hr	50/60 Hz	200–240 V AC
750 W Mixed Mode HVDC (for China only)	Platinum	2891 BTU/hr	50/60 Hz	100–240 V AC
750 W Mixed Mode DC (for China only)	N/A	2891 BTU/hr	50/60 Hz	240 V DC, 4.5 A
1100 W DC	N/A	4416 BTU/hr	50/60 Hz	-(48–60) V DC
1100 W Mixed Mode HVDC (for China and Japan only)	Platinum	4100 BTU/hr	50/60 Hz	100–240 V AC and 200–380 V DC
1100 W AC	Platinum	4100 BTU/hr	50/60 Hz	100–240 V AC
1600 W AC	Platinum	6000 BTU/hr	50/60 Hz	100–240 V AC
1600 W AC	Titanium	5970 BTU/hr	50/60 Hz	200–240 V AC

i **NOTE:** If system with 1100 W AC or HVDC PSU operates from 100 to 120V, the power rating per PSU is derated to 1050 W.

i **NOTE:** If system with 1600 W PSUs operates from 100 to 120 V, then the power rating per PSU is derated to 800 W.

i **NOTE:** Heat dissipation is calculated using the PSU wattage rating.

i **NOTE:** This system is also designed to connect to the IT power systems with a phase to phase voltage not exceeding 230 V.

i **NOTE:** PSUs rated for 1600 W and higher require high-line voltage (200-240 V) to supply their rated capacity.