

Burden Statement:

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Instructions:

Fill in data for each column by individual model.

EPA plans to use this data for the purpose of developing new or updated criteria for ENERGY STAR. EPA will not request data already publicly available in federal or industry registries.

Expiration Date: Pending Approval

EPA Form: PFN-3400-4

Fields

Product Type	
Product Attributes	up to 10 fields
Efficiency Information	up to 10 fields
Performance Data	up to 15 fields

Brand Name	Model Name	Model Number	Static Temperature Accuracy ($\pm^{\circ}\text{F}$)
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Standby Power (W)	Time to Enter Standby (s)	Thermostat Heating and Cooling Control Features
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Thermostat
Communication Method

Brand Name

Model Name

Model Number

Type

Integrated Desktop Category	Product Marketed as a Workstation	Notebooks, Desktops, Integrated Computers, Slate/Tablets, Two-in-one Notebooks, and Portable All-in-ones Category for TEC (Typical Energy Consumption) Criteria	Installed NPU
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Motherboard Form Factor	Product DIMM Count	Operating System Name
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Processor Brand	Physical CPU Cores (count)

CPU Packages (count)	CPU Base Clock Speed (GHz)
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CPU Maximum Clock Speed (GHz)	System Memory (GB)	Multi-Channel Memory Support
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Capable of Switchable Graphics	Switchable Graphics Enabled by Default in AC Mode	Discrete Graphics Frame Buffer Bandwidth (GB/s)

Discrete Graphics Frame Buffer Data Width (bits)	Number of Installed Storage Drives	Number of Integrated Displays (count)

Integrated Display Resolution (megapixels)	Integrated Display Viewable Screen Area (sq in)
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Enhanced Performance Display Present	Integrated Display Diagonal Screen Size (in)

External Power Supply Rated Power (W)	Internal Power Supply Rated Power (W)	MUX Device

Storage Technology	Total Battery Capacity (watt-hours)	Default Low-power Mode

Long Idle Power Used for Sleep Mode	Off Mode (watts)	Sleep Mode (watts)	Long Idle (watts)	Short Idle (watts)	Base TEC Allowance (kWh)
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Functional Adder Allowances (kWh)	TEC of Model (kWh)	Maximum TEC Requirements (Etec max) (kWh)	Touch Screen

Will the Speed of Any Active 1 GB/s or Higher Ethernet Network Links be Reduced to Less Than 1 GB/s When Transitioning to Sleep or Off Mode?

Brand Name	Model Name	Model Number	Product Type
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Panel Type	Native Resolution (pixels)	Total Native Resolution (megapixels)	Screen Size (inches)
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Screen Area (square inches)	Power Source	On Mode Power (watts)
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Maximum On Mode Power Limit
for Signage Certification (watts) Sleep Mode Power (watts)

Maximum Sleep Mode Power
Limit for Signage Certification
(watts)

Off Mode Power (watts)

On Mode Power at 12 Lux at 115 Volts (W)	On Mode Power at 300 Lux (watts)
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Monitor Total Energy Consumption at 115 Volts (kWh/yr)	Maximum Total Energy Consumption Limit for Monitor Certification (kWh/yr)	Maximum Luminance (candelas per square meter)
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Enhanced-Performance
Display?

Color Gamut

Color Spaces Supported

High Dynamic Range
(HDR)

Display Contrast Ratio at 0 deg.
Horiz. Viewing Angle

Reported Contrast Ratio at -85 Degrees (Left) Horizontal Viewing Angle	Reported Contrast Ratio at +85 Degrees (Right) Horizontal Viewing Angle
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USB-C with Power Delivery
Supported

Maximum Power Delivery
(W)

Tiled Display System

Maximum Tiled Configuration

Brand Name

Model Name

Model Number

Form Factor

Product Processor Socket Single Server

Storage Heavy Server

Resilient System

Number of Nodes for NError Correcting Code

Error Correcting Code Enabled in
Hardware as Shipped

Available Expansion Slots

Operating Systems Supported

Operating System Used for Testing

Power Saving Features Available

Power Saving Features Enabled

End User Required Power Saving
Features

Other Power Saving Feature 1: Description

Other Power Saving Feature 1: Enabled on Shipment	Other Power Saving Feature 1: End-User Enabling Required	Other Power Saving Feature 2: Description
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Other Power Saving Feature 2: Enabled on Shipment	Other Power Saving Feature 2: End-User Enabling Required	Other Power Saving Feature 3: Description
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Other Power Saving Feature 3: Enabled
on Shipment

Other Power Saving Feature 3:
End-User Enabling Required

APA #1 Model Name

APA #1 Model Number

APA #1 Reported Idle Power (Watt

APA #2 Model Name

APA #2 Model Number

APA #2 Reported Idle Power (Watts)	APA #3 Model Name
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APA #3 Model Number

APA #3 Reported Idle Power (Watts)

Processor Power Management Enabled in Hardware on Shipment

Processor Power Management Additional Information

Storage Power Management Enabled in Hardware on Shipment

Storage Power Management Additional Information

Memory Power Management Enabled in Hardware on Shipment

Memory Power Management Additional Information

I/O Power Management Enabled in Hardware on Shipment

I/O Power Management Additional Information

Processor Dynamic Voltage Scaling Enabled on Shipment

Processor Dynamic Frequency Scaling Enabled on Shipment

Processor Dynamic Voltage Scaling End-User Enabling
Required

Processor Dynamic Frequency Scaling End-User Enabling
Required

Processor or Core Reduced Power States Enabled on Shipment

Processor or Core Reduced Power States Enabling
Required

Power Capping Enabled on Shipment

Power Capping End-User Enabling Required

Variable Speed Fan Control Enabled on Shipment

Variable Speed Fan Control End-User Enabling Required

Low Power Memory States Enabled on Shipment

Low Power Memory States End-User Enabling Required

Low Power I/O States Enabled on Shipment

Low Power I/O States End-User Enabling Required

Liquid Cooling Capability Enabled on Shipment

Liquid Cooling Capability End-User Enabling Required Available DIMM Slots

Maximum Memory Capacity (GB)

Maximum Number Blade Slots

SERT Version

SERT Version Other

Model Number or Config ID for Low-end Performance
Configuration

Model Number or Config ID for Typical or Single Configuration

Model Number or Config ID for High-end Performance Configuration

Installed Processors for Low-end Performance Configuration

Installed Processors for Typical or Single Configuration

Installed Processors for High-end Performance Configuration

Cores Per Processor Low-end Performance
Configuration

Cores Per Processor Typical or Single Configuration

Cores Per Processor High-end Performance
Configuration

Number of Threads for Low-end Performance Configuration

Number of Threads for Typical or Single Configuration

Number of Threads for High-end Performance
Configuration

Processor Brand Low-end Performance Configuration

Processor Brand Typical or Single Configuration

Processor Brand High-end Performance Configuration

Processor Model Name Low-end Performance
Configuration

Processor Model Name Typical or Single Configuration

Processor Model Name High-end Performance
Configuration

Processor Speed for Low-end Performance
Configuration (GHz)

Processor Speed for Typical or Single Configuration
(GHz)

Processor Speed for High-end Performance
Configuration (GHz)

Num. of DDR Channels for Low-end Performance Configuration

Num. of DDR Channels for Typical or Single Configuration

Num. of DDR Channels for High-end Performance Configuration

Memory Manufacturer for Low-end Performance
Configuration

Memory Manufacturer for Typical or Single
Configuration

Memory Manufacturer for High-end Performance
Configuration

Memory Model Number Low-end Performance
Configuration

Memory Model Number Typical or Single Configuration

Memory Model Number High-end Performance
Configuration

Memory Speed Low-end Performance Configuration
(GHz)

Memory Speed Typical or Single Configuration (GHz)

Memory Speed High-end Performance Configuration
(GHz)

Low-end Performance Configuration Size Per DIMM (GB)

Typical or Single Configuration Size Per DIMM (GB)

High-end Performance Configuration Size Per DIMM
(GB)

Installed Num. DIMMs for Low-end Performance
Configuration

Installed Num. DIMMs for Typical or Single
Configuration

Installed Num. DIMMs for High-end Performance
Configuration

Installed Memory for Low-end Performance
Configuration (GB)

Installed Memory for Typical or Single Configuration
(GB)

Installed Memory for High-end Performance
Configuration (GB)

Num. Solid State Drives (SSDs) Low-end Performance Configuration

Num. Solid State Drives (SSDs) Typical or Single Configuration

Num. Solid State Drives (SSDs) High-end Performance Configuration

Number Rotational Drives Low-end Performance
Configuration

Number Rotational Drives Typical or Single
Configuration

Number Rotational Drives High-end Performance
Configuration

Low-end Performance Configuration Redundant Power
Supply

Typical or Single Configuration Redundant Power Supply

High-end Performance Configuration Redundant Power
Supply

Power Supply Type for Low-end Performance
Configuration

Power Supply Type for Typical or Single Configuration

Power Supply Type for High-end Performance
Configuration

Power Supply Manufacturer Low-end Performance
Configuration

Power Supply Manufacturer Typical or Single
Configuration

Power Supply Manufacturer High-end Performance
Configuration

Power Supply Model Name Low-end Performance
Configuration

Power Supply Model Name Typical or Single Configuration

Power Supply Model Name High-end Performance
Configuration

Power Supply Model Number Low-end Performance
Configuration

Power Supply Model Number Typical or Single
Configuration

Power Supply Model Number High-end Performance
Configuration

Power Supply Rated Output Low-end Performance
Configuration (W)

Power Supply Rated Output Typical or Single
Configuration (W)

Power Supply Rated Output High-end Performance
Configuration (W)

Num. Power Supplies for Low-end Performance Configuration

Num. Power Supplies for Typical or Single Configuration

Num. Power Supplies for High-end Performance Configuration

Number of PSU for Redundancy Low-end Performance
Configuration

Number of PSU for Redundancy Typical or Single Configuration

Number of PSU for Redundancy High-end Performance Configuration

PSU 80Plus Platinum Certified Low-end Performance
Configuration

PSU 80Plus Platinum Certified Typical or Single
Configuration

PSU 80Plus Platinum Certified High-end Performance
Configuration

64-bit Architecture

SERT Compress Eff. Score for Low-end Performance Configuration

SERT Compress Eff. Score for Typical or Single
Configuration

SERT Compress Eff. Score for High-end Performance Configuration

SERT CryptoAES Efficiency Score Low-end Performance Configuration

SERT CryptoAES Efficiency Score Typical or Single Configuration

SERT CryptoAES Efficiency Score High-end Performance Configuration

SERT LU Efficiency Score Low-end Performance
Configuration

SERT LU Efficiency Score Typical or Single Configuration

SERT LU Efficiency Score High-end Performance
Configuration

SERT SOR Efficiency Score Low-end Performance
Configuration

SERT SOR Efficiency Score Typical or Single Configuration

SERT SOR Efficiency Score High-end Performance
Configuration

SERT SORT Efficiency Score Low-end Performance
Configuration

SERT SORT Efficiency Score Typical or Single Configuration

SERT SORT Efficiency Score High-end Performance
Configuration

SERT SHA256 Efficiency Score Low-end Performance Configuration

SERT SHA256 Efficiency Score Typical or Single Configuration

SERT SHA256 Efficiency Score High-end Performance
Configuration

SERT Flood Efficiency Score Low-end Performance
Configuration

SERT Flood Efficiency Score Typical or Single
Configuration

SERT Flood Efficiency Score High-end Performance Configuration

SERT Capacity Efficiency Score Low-end Performance
Configuration

SERT Capacity Efficiency Score Typical or Single Configuration

SERT Capacity Efficiency Score High-end Performance
Configuration

SERT Sequential Efficiency Score Low-end Performance
Configuration

SERT Sequential Efficiency Score Typical or Single Configuration

SERT Sequential Efficiency Score High-end Performance
Configuration

SERT Random Efficiency Score Low-end Performance
Configuration

SERT Random Efficiency Score Typical or Single
Configuration

SERT Random Efficiency Score High-end Performance Configuration

SERT SSJ Efficiency Score Low-end Performance
Configuration

SERT SSJ Efficiency Score Typical or Single Configuration

SERT SSJ Efficiency Score High-end Performance
Configuration

SERT Idle Measurement (Watts) Low-end Performance Configuration

SERT Active State Efficiency Score Low-end Performance Configuration

SERT Total Server Normalized Performance Score Low-
end Performance Configuration

SERT Total Server Power Score (Watts) Low-end
Performance Configuration

SERT Idle Measurement (Watts) Typical or Single
Configuration

SERT Active State Efficiency Score Typical or Single Configuration

SERT Total Server Normalized Performance Score Typical
or Single Configuration

SERT Total Server Power Score (Watts) Typical or Single Configuration

SERT Idle Measurement (Watts) High-end Performance
Configuration

SERT Active State Efficiency Score High-end
Performance Configuration

SERT Total Server Normalized Performance Score High-
end Performance Configuration

SERT Total Server Power Score (Watts) High-end
Performance Configuration

Tested Num. Blade Slots Low-end Performance
Configuration

Tested Num. Blade Slots Typical or Single Configuration

Tested Num. Blade Slots High-end Performance
Configuration

Date Available On Market

Brand Name	Model Name	Model Number	Product Type
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Page Format Size Marking Technology

Print Speed (ipm or mppm)	Automatic Duplex Output Capable	Typical Electricity Consumption (TEC) (kWh/wk)
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Typical Electricity Consumption
(TEC) (kWh/yr)

Power in Sleep (Watts)

Power in Off (Watts)

Default Delay Time to Sleep
(minutes)

Print/Copy Time from Ready
State (s)

Print/Copy Time from Sleep
Mode (s)

Print/Copy Time from Previous Job (s)	Digital Front End (DFE) Manufacturer
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DFE Model Number

DFE Typical Electricity Consumption (TEC) (kWh/wk)	DFE Typical Electricity Consumption (TEC) (kWh/yr)	DFE Ready State Power (Watts)
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DFE Sleep Mode Power (Watts)	Professional Imaging Product Ready Mode Power (W)	Professional Imaging Product Production Energy (Wh/image)
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Functional Adders

Date Available On Market

Brand Name

Model Name

Model Number

Product Type

Display Type

Backlight Technology Type

Diagonal Viewable Screen Size (in.)

Screen Area (sq. in.)

Native Horizontal Resol	Native Vertical Resolution (pixels)	Resolution Format
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High Contrast Ratio (HCR) Display

Physical Data Ports Available

Ethernet Supported

Low Power Wireless Technologies
Supported

Features

Automatic Brightness Control

Is Automatic Brightness Control Enabled by Default in the Default SDR
Preset Picture Setting When Television is Shipped?

Average On Mode Power Consumption for Certification (watts)	Maximum Average On Mode Power for Certification (watts)	Reported On Mode Power (per the Federal Test Procedure) (watts)
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Reported Annual Energy Consumption (kWh)	Measured Standby Mode Power (Watts)	Power Consumption in Standby Mode when Not Connected to a Network (watts)
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Power Consumption in Standby Mode
when Connected to a Network (watts)

Reported Standby-Active, Low
Mode Power (watts)

Date Available On Market

Brand Name	Model Name	Model Number	Product Type
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Minimum Configuration Tested
Power Conversion MeModel Number

Active Output Power Rating
Minimum Configuration (W)

Apparent Output Power Rating
Minimum Configuration (VA)

Maximum
Configuration
Tested Model
Number

Active Output Power Rating
Maximum Configuration (W)

Apparent Output Power Rating
Maximum Configuration (VA)

Topology (ac)

Topology and Product Type Comb

Application

Rated Input Voltage (V rms)

Rated Input Frequency (Hz) Rated Output Voltage (V)

Rated Output Frequency (Hz)

Rack Mountable

Normal Mode(s) Input
Dependency Characteristic
(ac)

Modular UPS

Number of Normal Modes	Default Normal Mode (ac)	Test Input Voltage (V rms)
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Test Input Frequency (Hz)

Test Output Voltage (V)

Test Output Frequency (Hz)	Total Input Power in W at 0% Load Min Config Lowest Dependency (ac)
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Total Input Power in W at 0% Load Min Config Highest Dependency (ac)	Efficiency at 25% Load Min Config Lowest Dependency (ac)	Efficiency at 25% Load Min Config Highest Dependency (ac)
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Efficiency at 50% Load Min
Config Lowest Dependency
(ac)

Efficiency at 50% Load Min Config
Highest Dependency (ac)

Efficiency at 75% Load Min Config Lowest
Dependency (ac)

Efficiency at 75% Load Min Config Highest
Dependency (ac)

Efficiency at 100% Load Min Config Lowest
Dependency (ac)

Efficiency at 100% Load Min Config Highest
Dependency (ac)

Weighted Efficiency Calc Min Config Lowest
Dependency

Weighted Efficiency Calc Min Config Highest
Dependency

Total Input Power in W at 0% Load Minimum
Configuration (dc)

Efficiency at 30% Load Minimum
Configuration (dc)

Efficiency at 40% Load Minimum Configuration
(dc)

Efficiency at 50% Load Minimum
Configuration (dc)

Efficiency at 60% Load Minimum
Configuration (dc)

Efficiency at 70% Load Minimum
Configuration (dc)

Efficiency at 80% Load Minimum
Configuration (dc)

Minimum Configuration Input Power Factor
Lowest-Input Dependency

Minimum Configuration Input Power Factor
Highest-Input Dependency

Total Input Power in W at 0% Load Max
Config Lowest Dependency (ac)

Total Input Power in W at 0% Load Max
Config Highest Dependency (ac)

Efficiency at 25% Load Max Config Lowest
Dependency (ac)

Efficiency at 25% Load Max Config Highest
Dependency (ac)

Efficiency at 50% Load Max Config Lowest
Dependency (ac)

Efficiency at 50% Load Max Config Highest
Dependency (ac)

Efficiency at 75% Load Max Config Lowest
Dependency (ac)

Efficiency at 75% Load Max Config Highest
Dependency (ac)

Efficiency at 100% Load Max Config Lowest
Dependency (ac)

Efficiency at 100% Load Max Config Highest
Dependency (ac)

Weighted Efficiency Calc Max Config Lowest
Dependency

Weighted Efficiency Calc Max Config Highest
Dependency

Total Input Power in W at 0% Load Maximum
Configuration (dc)

Efficiency at 30% Load Maximum
Configuration (dc)

Efficiency at 40% Load Maximum
Configuration (dc)

Efficiency at 50% Load Maximum
Configuration (dc)

Efficiency at 60% Load Maximum
Configuration (dc)

Efficiency at 70% Load Maximum
Configuration (dc)

Efficiency at 80% Load Maximum
Configuration (dc)

Maximum Configuration Input Power Factor
Lowest-Input Dependency

Maximum Configuration Input Power Factor Highest-Input Dependency	Efficiency (%)
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Modular UPS Module Tested Model Number

Brand Name

Model Name

Model Number

Product Type

Max Nameplate Output Current (A)	Input Voltage (V)	Maximum Output Power (kW)
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Number of Outputs	Screen Area, if EVSE has high res display (in ²)	Maximum (100%) Measured Luminance of the High Res Display (candelas per m ²)
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Automatic Brightness Control
(ABC) Capable?

Connected Capable

DR Protocol

Connects Using

Protocols Used to Support Smart
Charging Auxiliary Product Features

Product Features

Network Connection Types
Available

No Vehicle Mode Input Power
(watts)

No Vehicle Mode Total
Allowance (watts)

No Vehicle Mode Power
Factor

Partial On Mode Input
Power (watts)

Partial On Mode Total
Allowance (watts)

Partial On Mode Power
Factor

Idle Mode Input Power (watts)	Idle Mode Total Allowance (watts)
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Idle Mode Power Factor

Dual Input Level 2: No Vehicle
Mode Input Power (watts)

Dual Input No Vehicle
Mode Total Allowance
(watts)

Dual Input Level 2: No Dual Input Level 2: Partial On
Vehicle Mode Power Factor Mode Input Power (watts)

Dual Input Partial On Mode
Total Allowance (watts)

Dual Input Level 2: Partial On Mode
Power Factor

Dual Input Level 2: Idle Mode
Input Power (watts)

Dual Input Idle Mode Total
Allowance (watts)

Dual Input Level 2: Idle Mode
Power Factor

Brand Name

Model Name

Model Number

DC-input or AC-
input

Single Phase or
Three Phase

Product Configuration

Network Connection
Types Available

Screen Area, if EVSE has high res display (in ²)	Maximum Measured Luminance of the High Res Display (candelas per m ²)
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Automatic Brightness Control
Capable?

DR Protocol

Connects Using

Protocols Used to Support Smart
Charging

Auxiliary Product Features

Product Features

Maximum Available Output
Power

Maximum Nameplate Output
Current (A) AC-Input

Rated Input Voltage (V) AC-Input

Number of Outputs

Integral Battery Bank	No Vehicle Mode Input Power (watts) AC-Input	No Vehicle Mode Total Allowance (watts)
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No Vehicle Mode Power
Factor AC-Input

Partial On Mode Input
Power (watts) AC-Input

Partial On Mode Total Allowance (watts)	Partial On Mode Power Factor AC-Input
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Operation Mode: 25% Loading
Condition Input Power in
Temperate Climate AC-Input

Operation Mode: 25% Loading
Condition Output Power in
Temperate Climate AC-Input

Operation Mode: 50%
Loading Condition Input
Power in Temperate
Climate AC-Input

Operation Mode: 50%
Loading Condition Output
Power in Temperate
Climate AC-Input

Operation Mode: 75% Loading
Condition Input Power in
Temperate Climate AC-Input

Operation Mode: 75% Loading	Operation Mode: 50 kW Loading
Condition Output Power in	Condition Input Power in
Temperate Climate AC-Input	Temperate Climate AC-Input

Operation Mode: 50 kW Loading Condition
Output Power in Temperate Climate AC-
Input

Operation Mode: 150 kW Loading Condition
Input Power in Temperate Climate AC-Input

Operation Mode: 150 kW Loading Condition
Output Power in Temperate Climate AC-
Input

Operation Mode: 100% Loading Condition
Input Power in Temperate Climate AC-Input

Operation Mode: 100% Loading Condition
Output Power in Temperate Climate AC-
Input

Operation Mode: 100% Loading Condition
Power Factor in Temperate Climate AC-
Input

Average Loading-Adjusted Efficiency (%)
AC-Input

Maximum Nameplate Output Current (A)
DC- Input

Rated Input Voltage (V) DC-Input

No Vehicle Mode Input Power (watts) DC-Input

Partial On Mode Input Power (watts) DC-
Input

Idle Mode Input Power (watts) DC-Input

Operation Mode: 25% Loading Condition	Operation Mode: 25% Loading Condition
Input Power in Temperate Climate DC-Input	Output Power in Temperate Climate DC-Input

Operation Mode: 50% Loading Condition	Operation Mode: 50% Loading Condition
Input Power in Temperate Climate DC-Input	Output Power in Temperate Climate DC-Input

Operation Mode: 75% Loading Condition	Operation Mode: 75% Loading Condition
Input Power in Temperate Climate DC-Input	Output Power in Temperate Climate DC-Input

Operation Mode: 50 kW Loading Condition	Operation Mode: 50 kW Loading Condition
Input Power in Temperate Climate DC-Input	Output Power in Temperate Climate DC-Input

Operation Mode: 150 kW Loading Condition Operation Mode: 150 kW Loading Condition
Output Power in Temperate Climate DC-
Input Power in Temperate Climate DC-Input Input

Operation Mode: 100% Loading Condition	Operation Mode: 100% Loading Condition
Input Power in Temperate Climate DC-Input	Output Power in Temperate Climate DC-Input

Average Loading-Adjusted Efficiency (%)
DC-Input

Brand Name

Model Name

Model Number

Product Type

Storage Controller ConfigStorage Controller Manufacturer Name

Storage Controller Model Name

Storage Controller Model Number

Storage Controller		
Advanced Data	Capacity Optimized Method Available	
Recovery Type	(COMs)	Workload Optimization Type

Automated Storage Tiering Capable

Automated Storage Tiering Enabled in
Hardware on Shipment

Software Operating Environment Name	Software Operating Environment Version
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Active or Passive Cooling Enabled in
Hardware on Shipment

Length of Rolling Average for Input
Power (s)

Length of Rolling Average for Inlet Air Temperature (s)

Power and Temperature Reporting
Additional Information

Trans Model Number or Config ID Trans Power Supply Unit (PSU) Typ

Trans PSU Manufacturer Name	Trans PSU Model Name	Trans PSU Model Number
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Trans PSU Rated Output (W)

Trans PSUs 80PLUS Certification

Trans Total Amount of Cache (GB)

Trans Devices Used for Cache

Trans Total Num Installed Storage
Trans Other Devices Used for CachDevices Optimal Point
Trans Ratio Devices Mixed Optimal Poi

Trans Installed Solid State Devices in
Optimal Point

Trans Installed Rotational Devices in
Optimal Point

Trans Num of Controllers in Optimal Point

Trans Num Redundant Controllers Optimal Point

Trans Number of PSUs Optimal Point

Trans Number of Redundant PSUs Optimal Point

Trans Auto Tiering Enabled Optimal Point

Trans Optimal Point Hot Band Workload Test (IOPS/W)

Trans Optimal Point Random Read Workload Test
(IOPS/W)

Trans Optimal Point Random Write Workload Test
(IOPS/W)

Trans Optimal Point Ready Idle Workload Test (GB/W)

Trans Storage Device 1 Type

Trans Storage Device 1 Form Factor

Trans Storage Device 1 Rated Speed (RPM)

Trans Storage Device 1 Raw Capacity (GB)

Trans Num Devices Storage Device 1 Optimal Point

Trans Physical or Modeled Data Device 1 Optimal Point

Trans Automated Tiering Enabled During Testing Device
1

Trans Device 1 Optimal Point Hot Band Wrkld Test
(IOPS/W)

Trans Device 1 Optimal Point Random Read Wrkld Test
(IOPS/W)

Trans Device 1 Optimal Point Random Write Wrkld Test
(IOPS/W)

Trans Device 1 Optimal Point Ready Idle Wrkld Test
(GB/W)

Trans Storage Device 2 Type

Trans Storage Device 2 Form Factor

Trans Storage Device 2 Rated Speed (RPM)

Trans Storage Device 2 Raw Capacity (GB)

Trans Num Devices Storage Device 2 Optimal Point

Trans Physical or Modeled Data Device 2 Optimal Point

Trans Automated Tiering Enabled During Testing Device
2

Trans Device 2 Optimal Point Hot Band Wrkld Test
(IOPS/W)

Trans Device 2 Optimal Point Random Read Wrkld Test
(IOPS/W)

Trans Device 2 Optimal Point Random Write Wrkld Test
(IOPS/W)

Trans Device 2 Optimal Point Ready Idle Wrkld Test
(GB/W)

Stream Model Number or Config ID

Stream Power Supply Unit (PSU) Type

Stream PSU Manufacturer Name

Stream PSU Model Name

Stream PSU Model Number

Stream PSU Rated Output (W)

Stream PSUs 80PLUS Certification

Stream Total Amount of Cache (GB)

Stream Devices Used for Cache

Stream Other Devices Used for Cache

Stream Total Num Installed Storage Devices Optimal
Point

Stream Ratio Devices Mixed Optimal Point

Stream Installed Solid State Devices in Optimal Point

Stream Installed Rotational Devices in Optimal Point

Stream Num of Controllers in Optimal Point

Stream Num Redundant Controllers Optimal Point

Stream Number of PSUs Optimal Point

Stream Number of Redundant PSUs Optimal Point

Stream Auto Tiering Enabled Optimal Point

Stream Optimal Point Seq Read Workload Test
(MiBPS/W)

Stream Optimal Point Seq Write Workload Test
(MiBPS/W)

Stream Optimal Point Ready Idle Workload Test (GB/W) Stream Storage Device 1 Type

Stream Storage Device 1 Form Factor

Stream Storage Device 1 Rated Speed (RPM)

Stream Storage Device 1 Raw Capacity (GB)

Stream Num Devices Storage Device 1 Optimal Point

Stream Physical or Modeled Data Device 1 Optimal Point

Stream Automated Tiering Enabled During Testing
Device 1

Stream Device 1 Optimal Point Seq Read Wrkld Test
(MiBPS/W)

Stream Device 1 Optimal Point Seq Write Wrkld Test
(MiBPS/W)

Stream Device 1 Optimal Point Ready Idle Wrkld Test
(GB/W)

Stream Storage Device 2 Type

Stream Storage Device 2 Form Factor

Stream Storage Device 2 Rated Speed (RPM)

Stream Storage Device 2 Raw Capacity (GB)

Stream Num Devices Storage Device 2 Optimal Point

Stream Physical or Modeled Data Device 2 Optimal Point

Stream Automated Tiering Enabled During Testing
Device 2

Stream Device 2 Optimal Point Seq Read Wrkld Test
(MiBPS/W)

Stream Device 2 Optimal Point Seq Write Wrkld Test
(MiBPS/W)

Stream Device 2 Optimal Point Ready Idle Wrkld Test
(GB/W)

Date Available On Market

Brand Name

Model Name

Model Number

Product Type

Product Classification

Product Characteristics

Single LNE Product

Modular Product Family

End-user Configurable Power Management Features	Software/Firmware Version	Connection Topology Used During Variable Load Test
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Model Number of Compatible Modular
Chassis that Meet ENERGY STAR Criteria Maximum Number Modular Slots

Model Number of Compatible Modular
Modules that Meet ENERGY STAR
Criteria

Min Power Config Model Number or
Config ID

Min Power Config Modular Chassis
Name

Min Power Config Modular Chassis
Model Number

Min Power Config Number of Downlink Ports

Min Power Config Speed of Downlink Ports	Min Power Config Downlink Port T	Min Power Config Number of Uplink Ports
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Min Power Config Speed of Uplink Min Power Config Uplink Port Typ of Uplink and Downlink Ports Min Power Config Total Number

Min Power Config Ports Supported	Total Number of PoE	Min Power Config Class Supported	Maximum PoE
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Min Power Config Supported (W)	Max Total PoE Power	Min Power Config Additional Built-in Interface Ports
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Min Power Config EEE Capability on All Copper Ports	Min Power Config Redundant Power Supply	Min Power Config Power Supply Type
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Min Power Config Power Supply
Manufacturer

Min Power Config Power Supply Model
Name

Min Power Config Power Supply Model Number

Min Power Config Power Supply Rated Output (W)

Min Power Config Number Power Supplies

Min Power Config Number of PSUs for Redundancy

Min Power Config PSU 80Plus Certification Status

Min Power Config Test Voltage

Min Power Config Test Frequency

Min Power Config Variable Load Energy Efficiency
Test

Min Power Config Full-port Maximum Non-Drop Rate (Gb/s)

Min Power Config Full-port Full Load Throughput
Applied (Gb/s)

Min Power Config Full-port Full Load Power
Measured (watts)

Min Power Config Full-port 30 Percent Load
Throughput Applied (Gb/s)

Min Power Config Full-port 30 Percent Load Power
Measured (watts)

Min Power Config Full-port Very Low Util Throughput Applied (Gb/s)	Min Power Config Full-port Very Low Util Power Measured (watts)
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Min Power Config Half-port Maximum Non-Drop
Rate (Gb/s)

Min Power Config Half-port Full Load Throughput
Applied (Gb/s)

Min Power Config Half-port Full Load Power
Measured (watts)

Min Power Config Half-port 30 Percent Load
Throughput Applied (Gb/s)

Min Power Config Half-port 30 Percent Load Power Measured (watts)	Min Power Config Half-port Very Low Util Throughput Applied (Gb/s)
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Min Power Config Half-port Very Low Util Power
Measured (watts)

Min Power Config Modular Maximum Non-Drop Rate
(Gb/s)

Min Power Config Modular Full Load Throughput
Applied (Gb/s)

Min Power Config Modular Full Load Power
Measured (watts)

Min Power Config Modular 30 Percent Load
Throughput Applied (Gb/s)

Min Power Config Modular 30 Percent Load Power
Measured (watts)

Min Power Config Modular Very Low Util Throughput Applied (Gb/s)	Min Power Config Modular Very Low Util Power Measured (watts)
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Min Power Config	Modular	Maximum Non-Drop Rate	Min Power Config	Modular	Maximum Non-Drop Rate
for MUT #1 (Gb/s)			for MUT #2 (Gb/s)		

Min Power Config	Modular	Maximum Non-Drop Rate	Min Power Config	Modular	Maximum Non-Drop Rate
for MUT #3 (Gb/s)			for MUT #4 (Gb/s)		

Min Power Config	Modular	Maximum Non-Drop Rate	Min Power Config	Modular	Maximum Non-Drop Rate
for MUT #5 (Gb/s)			for MUT #6 (Gb/s)		

Min Power Config Modular Aggregate Maximum
Throughput (Gb/s)

Min Power Config Module #1 Model Name

Min Power Config Module #1 Model Number

Min Power Config Module #2 Model Name

Min Power Config Module #2 Model Number

Min Power Config Module #3 Model Name

Min Power Config Module #3 Model Number

Min Power Config Module #4 Model Name

Min Power Config Module #4 Model Number

Min Power Config Module #5 Model Name

Min Power Config Module #5 Model Number

Min Power Config Module #6 Model Name

Min Power Config Module #6 Model Number

Max Power Config Model Number or Config ID

Max Power Config Modular Chassis Name

Max Power Config Modular Chassis Model Number

Max Power Config Number of Downlink Ports

Max Power Config Speed of Downlink Ports

Max Power Config Downlink Port Type

Max Power Config Number of Uplink Ports

Max Power Config Speed of Uplink Ports

Max Power Config Uplink Port Type

Max Power Config Total Number of Uplink and Downlink Ports

Max Power Config Total Number of PoE Ports Supported

Max Power Config	Maximum PoE Class Supported	Max Power Config	Max Total PoE Power Supported (W)
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Max Power Config Additional Built-in Interface Ports Max Power Config EEE Capability on All Copper Ports

Max Power Config Redundant Power Supply

Max Power Config Power Supply Type

Max Power Config Power Supply Manufacturer

Max Power Config Power Supply Model Name

Max Power Config Power Supply Model Number

Max Power Config Power Supply Rated Output (W)

Max Power Config Number Power Supplies

Max Power Config Number of PSUs for Redundancy

Max Power Config PSU 80Plus Certification Status

Max Power Config Test Voltage

Max Power Config Test Frequency

Max Power Config Energy Efficiency Test

Max Power Config Full-port Maximum Non-Drop
Rate (Gb/s)

Max Power Config Full-port Full Load Throughput
Applied (Gb/s)

Max Power Config Full-port Full Load Power
Measured (watts)

Max Power Config Full-port 30 Percent Load
Throughput Applied (Gb/s)

Max Power Config Full-port 30 Percent Load Power
Measured (watts)

Max Power Config Full-port Very Low Util
Throughput Applied (Gb/s)

Max Power Config Full-port Very Low Util Power
Measured (watts)

Max Power Config Half-port Maximum Non-Drop
Rate (Gb/s)

Max Power Config Half-port Full Load Throughput
Applied (Gb/s)

Max Power Config Half-port Full Load Power
Measured (watts)

Max Power Config Half-port 30 Percent Load
Throughput Applied (Gb/s)

Max Power Config Half-port 30 Percent Load Power
Measured (watts)

Max Power Config Half-port Very Low Util
Throughput Applied (Gb/s)

Max Power Config Half-port Very Low Util Power
Measured (watts)

Max Power Config Modular Maximum Non-Drop
Rate (Gb/s)

Max Power Config Modular Full Load Throughput
Applied (Gb/s)

Max Power Config Modular Full Load Power
Measured (watts)

Max Power Config Modular 30 Percent Load
Throughput Applied (Gb/s)

Max Power Config Modular 30 Percent Load Power
Measured (watts)

Max Power Config Modular Very Low Util
Throughput Applied (Gb/s)

Max Power Config Modular Very Low Util Power
Measured (watts)

Max Power Config Modular Maximum Non-Drop
Rate for MUT #1 (Gb/s)

Max Power Config Modular Maximum Non-Drop
Rate for MUT #2 (Gb/s)

Max Power Config Modular Maximum Non-Drop
Rate for MUT #3 (Gb/s)

Max Power Config Modular Maximum Non-Drop
Rate for MUT #4 (Gb/s)

Max Power Config Modular Maximum Non-Drop
Rate for MUT #5 (Gb/s)

Max Power Config Modular Maximum Non-Drop
Rate for MUT #6 (Gb/s)

Max Power Config Modular Aggregate Maximum
Throughput (Gb/s)

Max Power Config Module #1 Model Name

Max Power Config Module #1 Model Number

Max Power Config Module #2 Model Name

Max Power Config Module #2 Model Number

Max Power Config Module #3 Model Name

Max Power Config Module #3 Model Number

Max Power Config Module #4 Model Name

Max Power Config Module #4 Model Number

Max Power Config Module #5 Model Name

Max Power Config Module #5 Model Number

Max Power Config Module #6 Model Name

Max Power Config Module #6 Model Number

Typ Power Config Model Number or Config ID

Typ Power Config Modular Chassis Name

Typ Power Config Modular Chassis Model Number Typ Power Config Number of Downlink Ports

Typ Power Config Speed of Downlink Ports

Typ Power Config Downlink Port Type

Typ Power Config Number of Uplink Ports

Typ Power Config Speed of Uplink Ports

Typ Power Config Uplink Port Type

Typ Power Config Total Number of Uplink and Downlink Ports

Typ Power Config Total Number of PoE Ports Supported

Typ Power Config Maximum PoE Class Supported

Typ Power Config Max Total PoE Power Supported
(W)

Typ Power Config Additional Built-in Interface Ports

Typ Power Config EEE Capability on All Copper Ports Typ Power Config Redundant Power Supply

Typ Power Config Power Supply Type

Typ Power Config Power Supply Manufacturer

Typ Power Config Power Supply Model Name

Typ Power Config Power Supply Model Number

Typ Power Config Power Supply Rated Output (W) Typ Power Config Number Power Supplies

Typ Power Config Number of PSUs for Redundancy	Typ Power Config PSU 80Plus Certification Status
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Typ Power Config Test Voltage

Typ Power Config Test Frequency

Typ Power Config Energy Efficiency Test

Typ Power Config Full-port Maximum Non-Drop Rate
(Gb/s)

Typ Power Config Full-port Full Load Throughput
Applied (Gb/s)

Typ Power Config Full-port Full Load Power
Measured (watts)

Typ Power Config Full-port 30 Percent Load
Throughput Applied (Gb/s)

Typ Power Config Full-port 30 Percent Load Power
Measured (watts)

Typ Power Config Full-port Very Low Util Throughput Applied (Gb/s)	Typ Power Config Full-port Very Low Util Power Measured (watts)
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Typ Power Config Half-port Maximum Non-Drop Rate	Typ Power Config Half-port Full Load Throughput
(Gb/s)	Applied (Gb/s)

Typ Power Config Half-port Full Load Power
Measured (watts)

Typ Power Config Half-port 30 Percent Load
Throughput Applied (Gb/s)

Typ Power Config Half-port 30 Percent Load Power
Measured (watts)

Typ Power Config Half-port Very Low Util Throughput
Applied (Gb/s)

Typ Power Config Half-port Very Low Util Power
Measured (watts)

Typ Power Config Modular Maximum Non-Drop Rate
(Gb/s)

Typ Power Config Modular Full Load Throughput
Applied (Gb/s)

Typ Power Config Modular Full Load Power
Measured (watts)

Typ Power Config Modular 30 Percent Load
Throughput Applied (Gb/s)

Typ Power Config Modular 30 Percent Load Power
Measured (watts)

Typ Power Config Modular Very Low Util Throughput Applied (Gb/s)	Typ Power Config Modular Very Low Util Power Measured (watts)
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Typ Power Config Modular Maximum Non-Drop Rate for MUT #1 (Gb/s)	Typ Power Config Modular Maximum Non-Drop Rate for MUT #2 (Gb/s)
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Typ Power Config Modular Maximum Non-Drop Rate for MUT #3 (Gb/s)	Typ Power Config Modular Maximum Non-Drop Rate for MUT #4 (Gb/s)
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Typ Power Config Modular Maximum Non-Drop Rate for MUT #5 (Gb/s)	Typ Power Config Modular Maximum Non-Drop Rate for MUT #6 (Gb/s)
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Typ Power Config Modular Aggregate Maximum
Throughput (Gb/s)

Typ Power Config Module #1 Model Name

Typ Power Config Module #1 Model Number

Typ Power Config Module #2 Model Name

Typ Power Config Module #2 Model Number

Typ Power Config Module #3 Model Name

Typ Power Config Module #3 Model Number

Typ Power Config Module #4 Model Name

Typ Power Config Module #4 Model Number

Typ Power Config Module #5 Model Name

Typ Power Config Module #5 Model Number

Typ Power Config Module #6 Model Name

Typ Power Config Module #6 Model Number

Date Available on Market

Brand Name	Model Name	Model Number	Type
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Water Source

Water Conditioning

Product Capacity Class

Daily Energy Use (On Mode With
No Water Draw) (kWh/day)

On Mode Performance for Cold Water Draw	On Mode Performance for Hot Water Draw	Cold-Water Dispenser Capacity (gal/hour)
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Hot-Water Dispenser Capacity
(exact 6 oz. cups/hour)

Dispensed Water Temperature -
Cold Water (F)

Dispensed Water Temperature - Additional Dispensing
Hot Water (F) Capabilites

Additional Product Capabilities Refrigerant Type

Brand Name	Model Name	Model Number	Product Type
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Product Form Factor Number of glass doors

Number of solid doors

Total Number of Doors

Door Opening Orientation

Number of Internal Ports and/or Access Holes	Number of Drawers or Shelves	Defrost Type
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Refrigerant Type

Refrigerant with GWP

Refrigerant Type Other

Total Volume (cubic feet)	Average Test Cabinet (°C)	Peak Temperature Variance (°C)
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Lab Grade Refrigerator or Freezer Ultra-Low Temperature Freezer Energy
Energy Consumption (kWh/day) Consumption (kWh/day/cu-ft)

Steady State Energy Consumption
(kWh/day)

Maximum Daily Energy
Allowance (kWh/day)

Depth (in)

Height

Width

Installed Accessories

Date Available On Market

Brand Name	Model Name	Model Number	Product Type
------------	------------	--------------	--------------

Field Strength (T) Bore Size (cm)

Maximum Power Output (kW)

Low Helium MRI

Percent reduction between
Ready-to-Scan and Power Save
Mode

Percent reduction between Ready-to-Scan and Lower Power Mode	Measured Power in Ready-to-Scan Mode (kW)	Measured Power in Power Save Mode (kW)
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Measured Power in Low
Power Mode (kW)

Date Available On Market

Brand Name

Model Name

Model Number

Product Type

Tank Capacity (gal) Tank Capacity (ounces)

Production Capacity (gal/hr)

Normalized Ready-to-Brew Idle
Energy Rate (watts/gal)

Temperature in
Ready-to-Brew
Idle (F?)

Normalized Heavy-Use Brew
Energy Rate (watts/gal)

Maximum serving temperature
during heavy-use brew test (°F)

Energy Save Mode Feature

Normalized Energy Save Mode
Idle Energy Rate (watts/gal)

Preheat Time (min)

Preheat Energy (Wh)

Brand Name	Model Name	Model Number	Product Type
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Induction Unit
Position

Length (inches)

Width (inches)

Height (inches)

Number of Hobs Shape of Hob 1

Shape of Hob 2

Shape of Hob 3

Shape of Hob 4

Shape of Hob 5

Shape of Hob 6

Area of Hob 1 (square inches) Area of Hob 2 (square inches)

Area of Hob 3 (square inches)

Area of Hob 4 (square inches)	Area of Hob 5 (square inches)	Area of Hob 6 (square inches)
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Voltage Configuration

Voltage (volts)

Nameplate Input Rate (kW)

Heat-Up Time (minutes) of Hob 1	Heat-Up Time (minutes) of Hob 2
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Heat-Up Time (minutes) of Hob 3 Heat-Up Time (minutes) of Hob 4

Heat-Up Time (minutes) of Hob 5	Heat-Up Time (minutes) of Hob 6	Cooking Energy Efficiency (%) of Hob 1
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Cooking Energy Efficiency (%) of Hob 2	Cooking Energy Efficiency (%) of Hob 3	Cooking Energy Efficiency (%) of Hob 4	Cooking Energy Efficiency (%) of Hob 5
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Cooking Energy Efficiency (%) of Hob 6	Cooking Energy Efficiency (%)	Productio n Capacity (lbs/hr) of Hob 1	Productio n Capacity (lbs/hr) of Hob 2	Productio n Capacity (lbs/hr) of Hob 3	Productio n Capacity (lbs/hr) of Hob 4
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Production Capacity (lbs/hr) of Hob 5

Production Capacity (lbs/hr) of Hob 6	Cooking Energy (kWh) of Hob 1	Cooking Energy (kWh) of Hob 2
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Cooking Energy (kWh) of Hob 3	Cooking Energy (kWh) of Hob 4	Cooking Energy (kWh) of Hob 5	Cooking Energy (kWh) of Hob 6
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Brand Name	Model Name	Model Number	Type
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Fuel Type

Width (in.)

Depth (in.)

Shortening Capacity (lbs)

Cooking Energy Efficiency (%)	Energy Use (Idle Energy Rate) (Btu/hr)	Energy Use (Idle Energy Rate) (Watts)
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Brand Name	Model Name	Model Number	Type
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Sanitation Method	Idle Energy Rate for Low Temp and Dual Sanitizing Machines (kW)
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Idle Energy Rate for High Temp and Dual Sanitizing Machines (kW)	Booster Heater Idle Energy Rate for High Temp and Dual Sanitizing Machines) (kW)
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Water
Consumption
(gallons/rack)

Water Consumption (gallons/hr)

Water Consumption (gallons/sq.
ft.)

Washing Energy Consumption
(kWh/rack) for Low Temp and
Dual Sanitizing Machines

Washing Energy Consumption
(kWh/rack) for High Temp and
Dual Sanitizing Machines

Heat Recovery Machine

Heat Recovery Features

Hot Water Energy Offset
Claimed

Hot Water Energy Offset
(kWh/rack)

Racks per Hour

Pot Pan Utensil Machine Wash Area (ft2)	Energy Saver Mode	Energy Saver Mode Idle Rate (kW)
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Brand Name	Model Name	Model Number	Type
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Fuel Type

Tested Configuration

Griddle Plate Type Description	Width (ft.)
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Depth (ft.)

Cooking Surface (sq. ft.)

Cooking Energy Efficiency (%)

Production Capacity (lbs/hr)	Energy Use (Normalized Idle Energy) (Btu/h/sq. ft.)
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Energy Use (Normalized Idle
Energy) (Watts/sq. ft.)

Top Platen Type

Brand Name	Model Name	Model Number	Door Type
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Number of Doors	Internal Volume (cu. ft.)
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Energy Usage (Watts)

Energy Use (Max Idle Energy Rate)
(Watts)

Brand Name	Model Name	Model Number	Product Type
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Oven Classification Size

Heat Source Fuel Type

Input Rate (kW)

Input Rate
(Btu/hr)

Gas Oven Convection Mode Pre-
Heat Energy (Btu)

Electric Oven Convection Mode
Pre-Heat Energy (kWh)

Convection Mode Pre-Heat Time (min)	Gas Oven Steam Mode Pre-Heat Energy (Btu)
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Electric Oven Steam Mode Pre-Heat Energy (kWh)	Steam Mode Pre-Heat Time (min)
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Electric Oven Convection Mode Idle Energy Rate (kW)	Gas Oven Convection Mode Idle Energy Rate (Btu/hr)
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Gas Oven Convection Mode Electric Idle Energy Rate (kW)

Gas Oven Convection Mode Total Idle	Method of Steam
Energy Rate (Btu/hr)	Generation

Half-Size and Full-Size
Steam Pan Capacity

Two-Thirds-Size Steam Pan
Capacity

Half-Size Sheet Pan
Capacity

Full-Size Sheet Pan
Capacity

Electric Oven Steam Mode Idle
Energy Rate (kW)

Gas Oven Steam Mode Idle	Gas Oven Steam Mode Electric Idle
Energy Rate (Btu/hr)	Energy Rate (kW)

Gas Oven Steam Mode Total Idle	Convection Mode Cooking
Energy Rate (Btu/hr)	Energy Efficiency (%)

Steam Mode Cooking
Energy Efficiency (%)

Convection Mode Production
Capacity (lbs/hr)

Steam Mode Production
Capacity (lbs/hr)

Convection Mode Cooking Period Water
Consumption (gal/pan)

Convection Mode Idle Period Water Consumption (gal/hr/pan)

Steam Mode Cooking Period Water Consumption (gal/pan)

Steam Mode Idle Period Water Consumption (gal/hr/pan)

Rack Oven Baking-Energy Efficiency (%)

Baking Production Capacity (lbs/hr)

Set-Back Idle Mode

Steam Injection Period Water Consumption (gal/min)

Brand Name	Model Name	Model Number	Product Type
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Method of Steam Generation	Pan Capacity
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Primary Fuel Source

Cooking Energy Efficiency (%)

Water Consumption
(gallons/hr)

Idle Energy Rate Gas (Btu/hr)

Idle Energy Rate Electric (Watts)

DOE Regulated

DOE Regulated

DOE Regulated

DOE Regulated

DOE Regulated

Regulated

Regulated

Regulated

Regulated

Regulated

Regulated

Regulated

Regulated

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