



DATA SHEET

Efficient Storage Expansion

**Exos E 2U12**



Seagate® Exos™ E 2U12 is the datasphere's ideal platform for Storage expansion, supporting efficient growth, performance, and high capacity at an affordable price.



### Product Highlights

- Optimize space, leverage the latest drive technologies and capacities
- Safeguard data with intelligent fault diagnosis, resolution capabilities, persistent error logging, and monitoring
- Deliver data fast using Seagate hard drives, SSDs, or a combination of both
- Ensure data is available with N+1 PCMs, I/O modules, and dual data paths to all drives
- Maximum of 28.8GB/s in a dual controller configuration

## Key Advantages

**Transfer Data Fast With a 12Gb/s SAS Interface.** Get data to applications when and where it's needed with up to 12Gb/s, yielding an effective maximum throughput of 14.4GB/s in a single I/O module or 28.8 GB/s in a dual controller configuration. With an expansion capability up to 144 solid-state drives or hard drives, expand your capacity of business knowledge with no sacrifice in performance.

**Deliver Versatile Architecture Built to Grow.** This flexible enclosure includes support and capabilities to manage cables, universal ports, configuration controls, and standardized zoning. As a key building block of our modular systems—which make all critical components interchangeable regardless of size or budget—this enclosure's modularity makes it easy to set up, maintain, and expand via interchangeable FRUs and hot-swappable components.

**Ensure Applications Have Access to Critical Data.** Safeguard your data with fault diagnosis, resolution capabilities, persistent error logging, and monitoring while ensuring maximum availability and harnessing high-availability features such as dual PCMs and I/O modules, as well as dual data paths to all drives.

**Reduce Cost and Resources With Energy-Efficient Features.** This enclosure is suited for both high-capacity and transaction-dependent environments that demand tighter Service Level Agreement (SLA) requirements and need faster response times for optimal data availability. It meets stringent worldwide requirements for recycling and environmental friendliness, can help you minimize environmental impact, and recognize cost savings through high performance.

**Reduce power consumption** 80 PLUS Gold and 80 PLUS Platinum power supply options with certified adaptive cooling technology.

**Build In Security at the Foundation of the Data Life Cycle.** Protect your most valuable business assets with guaranteed compatible Seagate Secure™ SSDs and hard drives.



Specifications											
Controller	Dual I/O modules per enclosure										
Host/Expansion Interface	Three universal x4 12Gb/s mini-SAS HD connectors (SFF-8644) per I/O module										
Management/Status Reporting	CLI via RS232 and 100Base-T port SES via SAS SFF-8644 ports										
Maximum System Configuration	Dual host-connected enclosure with a maximum expanded configuration of 12 enclosures for a total of 144 drives										
Device Support	Dual port 12Gb/s and 6Gb/s SAS drives.										
Max Drives per Enclosure	12 (for a full list of supported drives, please contact your account or sales manager)										
Hot-Swappable Components	Drives, power cooling modules (PCM), and SBB I/O modules										
Physical	Height: 88.9mm / 3.5 in (2 EIA units)   Width: 483mm / 19 in (IEC rack compliant)   Depth: 630mm / 24.8 in   Weight: 26kg / 52.7 lb (with drives)										
Power Requirements—AC Input											
Input Power Requirements	90VAC-264VAC, 50Hz/60Hz										
Max Power Output per PSU	580W										
Environmental/Temperature Ranges											
Operating/Nonoperating Altitude	0m to 3000m (0 ft to 10,000 ft) / -300m to 12,192m (-1000 ft to 40,000 ft)										
Operating/Nonoperating Temperature	ASHRAE A3, 5°C to 40°C (41°F to 104°F), derate 1°C/175m above 900m, 20°C/hr max rate of change / -40°C to 70°C (-40°F to 158°F)										
Operating/Nonoperating Humidity	-12°C DP and 10% RH to 21°C DP and 80% RH, max DP 21°C / 5% to 100% noncondensing										
Operating/Nonoperating Shock	5 Gs, 10ms, half sine pulses / 15 Gs, 10ms, half sine pulses										
Operating/Nonoperating Vibration	0.21 Gs rms (5-500Hz) / 1.04 Gs rms (2-200Hz)										
Power Supply Units											
Power Supply	<p>Ecodesign (Part SP-PCM01-HE580-AC/Model FS580FS104G-XX) - Gold</p> <table border="0"> <tr> <td>Power Efficiency 115VAC/60Hz 230VAC50/Hz</td> <td>Power Factor Condition</td> </tr> <tr> <td>10% Load =&gt;80% &gt;80%</td> <td>10% Loading = N/A</td> </tr> <tr> <td>20% Load =&gt;87% &gt;88%</td> <td>20% Loading = &gt;0.90</td> </tr> <tr> <td>50% Load =&gt;90% &gt;92%</td> <td>50% Loading = &gt;0.90</td> </tr> <tr> <td>100% Load =&gt;87% &gt;88%</td> <td>100% Loading = &gt;0.95</td> </tr> </table>	Power Efficiency 115VAC/60Hz 230VAC50/Hz	Power Factor Condition	10% Load =>80% >80%	10% Loading = N/A	20% Load =>87% >88%	20% Loading = >0.90	50% Load =>90% >92%	50% Loading = >0.90	100% Load =>87% >88%	100% Loading = >0.95
Power Efficiency 115VAC/60Hz 230VAC50/Hz	Power Factor Condition										
10% Load =>80% >80%	10% Loading = N/A										
20% Load =>87% >88%	20% Loading = >0.90										
50% Load =>90% >92%	50% Loading = >0.90										
100% Load =>87% >88%	100% Loading = >0.95										
Power Supply	<p>Ecodesign (Part SP-PCM4-PT580-AC/Model SGT-S-0580ADU00) - Platinum</p> <table border="0"> <tr> <td>Power Efficiency 115VAC/60Hz 230VAC50/Hz</td> <td>Power Factor Condition</td> </tr> <tr> <td>10% Load =&gt;80% &gt;80%</td> <td>10% Loading = N/A</td> </tr> <tr> <td>20% Load =&gt;90% &gt;90%</td> <td>20% Loading = &gt;0.90</td> </tr> <tr> <td>50% Load =&gt;92% &gt;94%</td> <td>50% Loading = &gt;0.95</td> </tr> <tr> <td>100% Load =&gt;89% &gt;91%</td> <td>100% Loading = &gt;0.95</td> </tr> </table>	Power Efficiency 115VAC/60Hz 230VAC50/Hz	Power Factor Condition	10% Load =>80% >80%	10% Loading = N/A	20% Load =>90% >90%	20% Loading = >0.90	50% Load =>92% >94%	50% Loading = >0.95	100% Load =>89% >91%	100% Loading = >0.95
Power Efficiency 115VAC/60Hz 230VAC50/Hz	Power Factor Condition										
10% Load =>80% >80%	10% Loading = N/A										
20% Load =>90% >90%	20% Loading = >0.90										
50% Load =>92% >94%	50% Loading = >0.95										
100% Load =>89% >91%	100% Loading = >0.95										

Hypertecsp.com



© 2022 Seagate Technology LLC. All rights reserved. Seagate, Seagate Technology, and the Spiral logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. Exos, the Exos logo, and Seagate Secure are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. When referring to drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes. Your computer's operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions, and thus will not be available for data storage. Actual data rates may vary depending on operating environment and other factors, such as chosen interface and disk capacity. The export or re-export of Seagate hardware or software is regulated by the U.S. Department of Commerce, Bureau of Industry and Security (for more information, visit [www.bis.doc.gov](http://www.bis.doc.gov)), and may be controlled for export, import, and use in other countries. Seagate reserves the right to change, without notice, product offerings or specifications. DS1983.6-2212US