



PSU and PCM Variants Technical Bulletin

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Introduction

This technical bulletin provides brief information about the new Power Supply Unit (PSU) and Power Cooling Module (PCM) variants that are being introduced for use in Seagate storage enclosures. The new power units (PSUs and/or PCMs) are compliant with Ecodesign requirements specified by the European Union, which demand increased power supply efficiency and fewer negative environmental impacts occurring throughout the product life cycle. For more information on the Ecodesign requirements, see the [European Union website](#).

Description

Seagate's new power units contain enhancements for improving performance of the enclosures by adhering to the new ECO standards. The new power units are designed by following Ecodesign principles, which have increased their efficiency.

The new Ecodesign power units have equivalent ratings with non-ECO power units. It is not mandatory to upgrade your power units to the ECO standard unless non-ECO power units are unavailable.

You must upgrade the system firmware to a supported version before installing a new power unit. You are allowed to mix non-ECO and Ecodesign power units in the same enclosure, but only for a limited time period while upgrading the power units to the ECO standard. During normal operation of an enclosure, both power units must be of the same version (either non-ECO or ECO standard). In a set of connected enclosures, both types of power unit can be used, provided the power units in a single enclosure are identical. The system will report a warning message—"Power supply is not supported"—if power units of different versions are installed in an enclosure.

The non-ECO power unit firmware is not compatible with the new Ecodesign power units, hence use of the new power unit requires the GEM (Generic Enclosure Management) code to be updated. However, the new power unit firmware supports the non-ECO power units.

New firmware files may have different firmware upgrade or downgrade procedures depending on the new inbuilt processor.

Seagate products and related Ecodesign PSUs and PCMs

The following table provides the list of Seagate products equipped with the new power units, along with their specifications.

Product	Power unit	PSU/PCM power	New PSU/PCM part number	Packaged FRU part number	80+ certification
Exos® E 5U84	PSU	2200W	1104546-XX	PFRUKE30-XX	Titanium
Exos® E 4U106	PSU	2000W	1104654-XX	PFRUKE31-XX	Titanium
Exos® CORVAULT™	PSU	2000W	1104654-XX	PFRUKE33-XX	Titanium
Exos® AP 4U100	PSU	3200W	1104655-XX	PFRUKE32-XX	Titanium
Exos® E 2U12 Exos® E 2U24	PCM	580W	1104029-XX	PFRUKE29-XX	Platinum

Product	Power unit	PSU/PCM power	New PSU/PCM part number	Packaged FRU part number	80+ certification
Exos® AP 2U12 Exos® AP 2U24	PCM	764W	1104335-XX	1106015-XX	Platinum
Exos® AP 5U84	PSU	2200W	1104546-XX	PFRUKE30-XX	Titanium
Exos® X 2U12 (4006) Exos® X 2U24 (4006)	PCM	580W	1104029-XX	PFRUKE29-XX	Platinum
Exos® X 5U84 (4006)	PSU	2200W	1104546-XX	PFRUKE30-XX	Titanium
Exos® X 2U12 (3005, 4005) Exos® X 2U24 (3005, 4005, 5005)	PCM	580W	1104029-XX	PFRUKE29-XX	Platinum
Exos® X 5U84 (4005, 5005)	PSU	2200W	1104546-XX	PFRUKE30-XX	Titanium

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