



Supermicro Titanium Power Supply Solution

Summary

Supermicro Green Computing focuses on energy efficiency at every level, from individual components to architecture and deployment, helping customers reduce the costliest capital and operating expenses throughout their data center ecosystem. With the new 1600W Titanium Level Power Supply, Supermicro now offers complete server and storage solutions with the industry's highest efficiency rating of 96%+. This white paper demonstrates that a Supermicro server equipped with redundant 1600W Titanium Level (96%+) power supplies can save a data center customer up to \$620 in total cost of ownership (TCO) over a 4-year period.

Introduction

Large scale data centers hosting cloud applications consume enormous amounts of energy, contributing to high operational expenses (OpEx) with the need for expensive cooling equipment to eliminate excess heat (CapEx). Together this CapEx and OpEx comprise a large portion of the total cost of ownership (TCO) for data center owners and Supermicro customers. As energy costs increase, there is a need to shift focus away from raw data center performance to optimizing for energy efficiency while maintaining high service level performance. According to a study by leading consulting firm McKinsey¹, the total estimated energy bill for data centers in 2010 was \$11.5 billion and energy costs in a typical data center double every five years. In order to mitigate this effect, data center owners need to proactively adopt measures to ensure that TCO does not dramatically increase due to high energy and capital costs. The key challenge is to find ways to lower the energy usage of data centers while simultaneously ensuring that applications and data have the resources required to enable timely execution. On the server system technology front, highly efficient power supply design provides one of the best, most cost effective means of building a sustainable, high performance and energy efficient data center with lowest TCO.

Figure 1 - Supermicro 1600W Power supply
Titanium-Level Certified.



Supermicro's Titanium Level Power Supplies

Supermicro is one of the earliest developers of Titanium Level power supplies. The 1U Redundant 1600W power supply, PWS-1K68A-1R, is 96.2% efficient, meaning that for every watt use, up to 96.2% of that watt is available to be used by the server that it powers. Excellent power supply efficiency is maintained over various workloads, not just the four points efficiency measurements required. The efficiency curve of the 1600W power supply, compared with Gold- and Platinum-rated, is shown in Figure 2.

Power Efficiency vs. Work Load

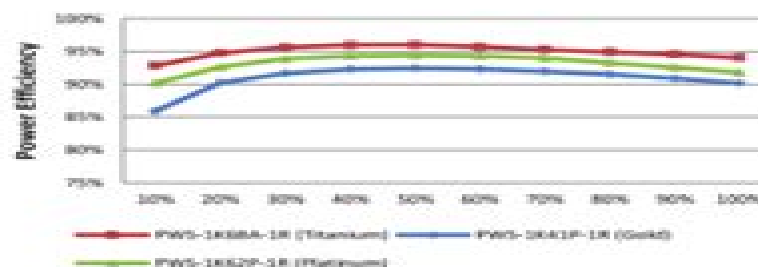


Figure 2 - Power Efficiency for Gold/Platinum/Titanium Level PSU.

Super P8sct Manual

Nintendo of America Inc



Super P8sct Manual:

Super Seven Owners Manual , Instruction Manual Nintendo of America Inc,1992

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