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Toughpower DPS G RGB

Digital Power Supply Collection Guide

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About

Toughpower DPS G RGB Series

This is the world's first 80 plus Titanium/Gold certified digitally control PSU with a patented 256 color RGB fan. It combines the Toughpower DPS G RGB and Smart Power Management (SPM) platforms – DPS G PC APP, DPS G Cloud Management, and DPS G Mobile APP – helping users not just to monitor their smart power supply units, but also saves energy, reducing CO_2 emission, and eventually protecting the Earth.
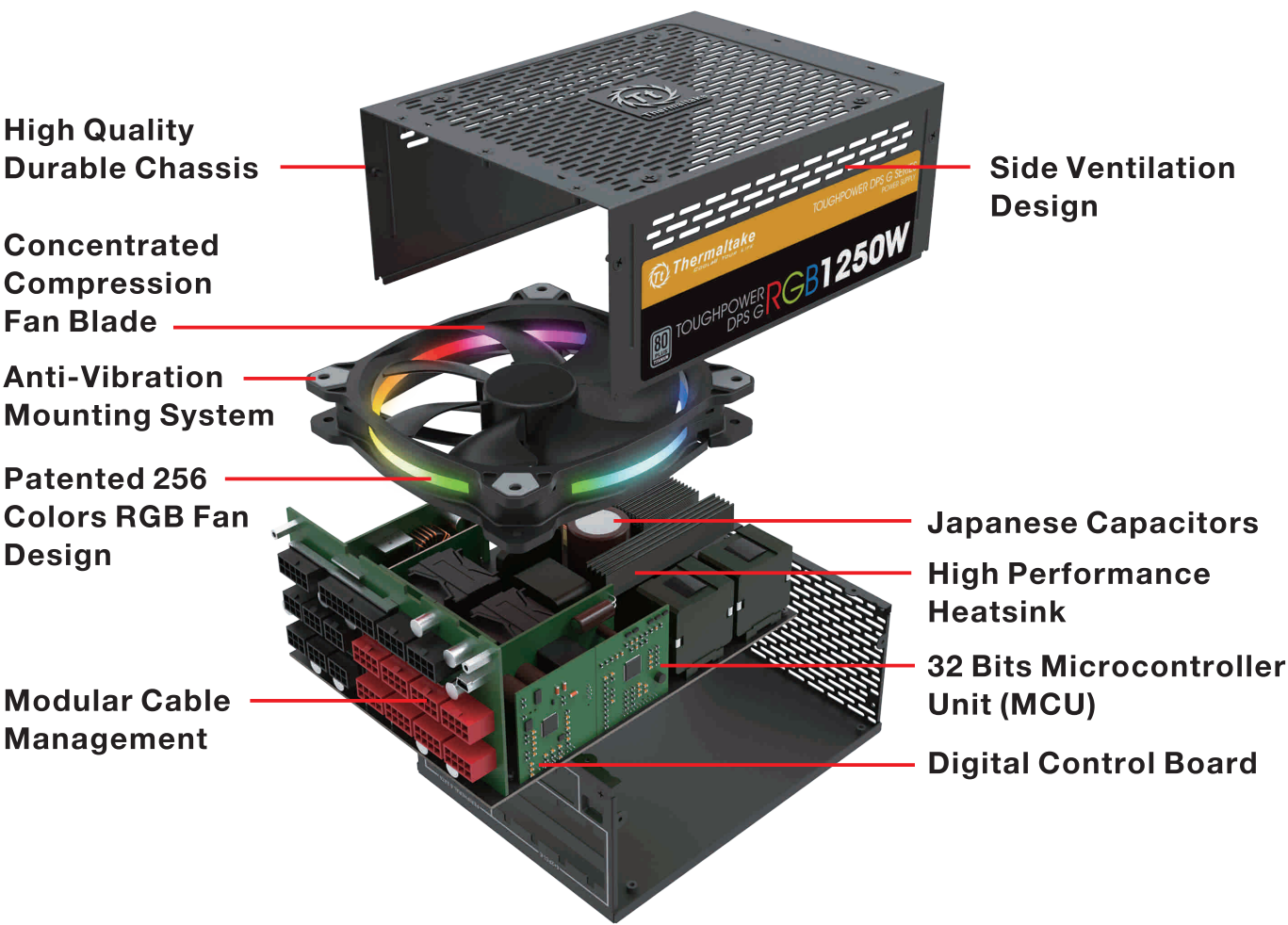
VR READY
TT POWER

Toughpower DPS G RGB Series Power supplies offer stable and sufficient output voltage for multiple VGA cards and high capability of different VGA cards for VR systems.

High Quality
Durable Chassis

Side Ventilation
Design

Concentrated
Compression
Fan Blade

Anti-Vibration
Mounting System

Patented 256
Colors RGB Fan
Design

Japanese Capacitors

High Performance
Heatsink

32 Bits Microcontroller
Unit (MCU)

Modular Cable
Management

Digital Control Board

Design Concept

Side Ventilation Design

Thermaltake has built a stylish housing to allow the best visibility of the RGB Riing fan with 256 colors making the light shine through all sides of the power supply. In addition, many ventilation holes on the top cover and side cover can increase the airflow to cool down the internal components of the power supply unit. The concept is inspired by professional modders and gamers, , and their exquisite taste and appreciation for RGB lighting.
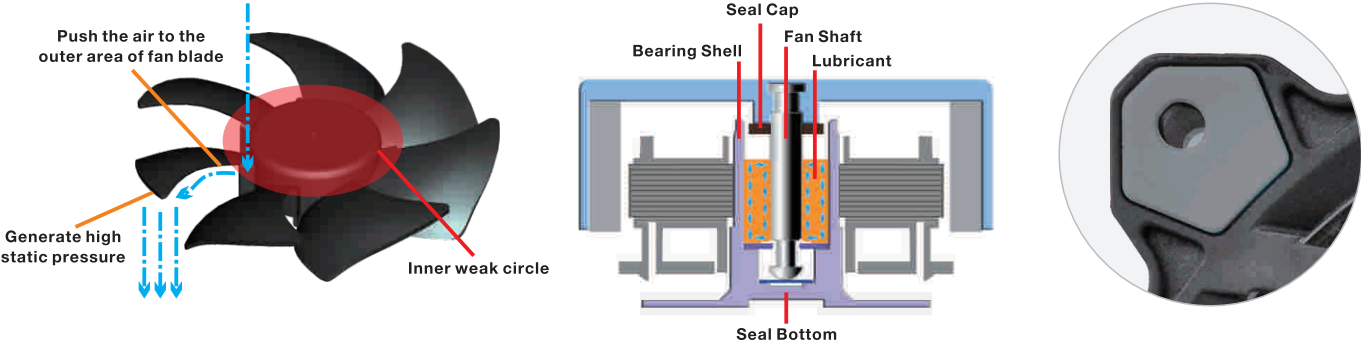
High Quality Durable Chassis

The brand new housing design not only increases the ventilation but also protects the internal componets of power supply. The housing is made from solid material to ensure high quality.

Patented 256 Colors RGB Fan

The first RGB PSU series introduced by Thermaltake installed with a patented circular 256 multi-colored 140mm fan. Users can freely adjust fan speed as well as fan colors digitally through DPS G PC App. The color and brightness uniformity of the multicolored LED ring is visible from all directions and adds style to the chassis.

Push the air to the outer area of fan blade

Generate high static pressure

Inner weak circle

Seal Cap
Bearing Shell
Fan Shaft
Lubricant
Seal Bottom

Concentrated Compression Fan Blade

The fan blade is designed for high static pressure requirements of demanding applications; the concentrated compression blade is engineered to focus the weaker, inner circle of air outward, allowing the outer section to pressurize the air. The fan blades are optimized to enhance static pressure for an impressive cooling performance. Hydraulic bearings for silent operation guarantee ultra-low noise, and the anti-vibration mounting system strengthens the product's stability during operation.

Anti-Vibration Mounting System

In-mold injection anti-vibration rubber pads provide hassle-free usage for 80% protection coverage, including all four corners.

32 Bit Microcontroller Unit (MCU)

The 32Bit MCU is a small computer on a single integrated circuit containing a processor core, memory, and programmable input/output peripherals. MCU can digitally control devices and processes, such as automobile engine control systems and office machines.
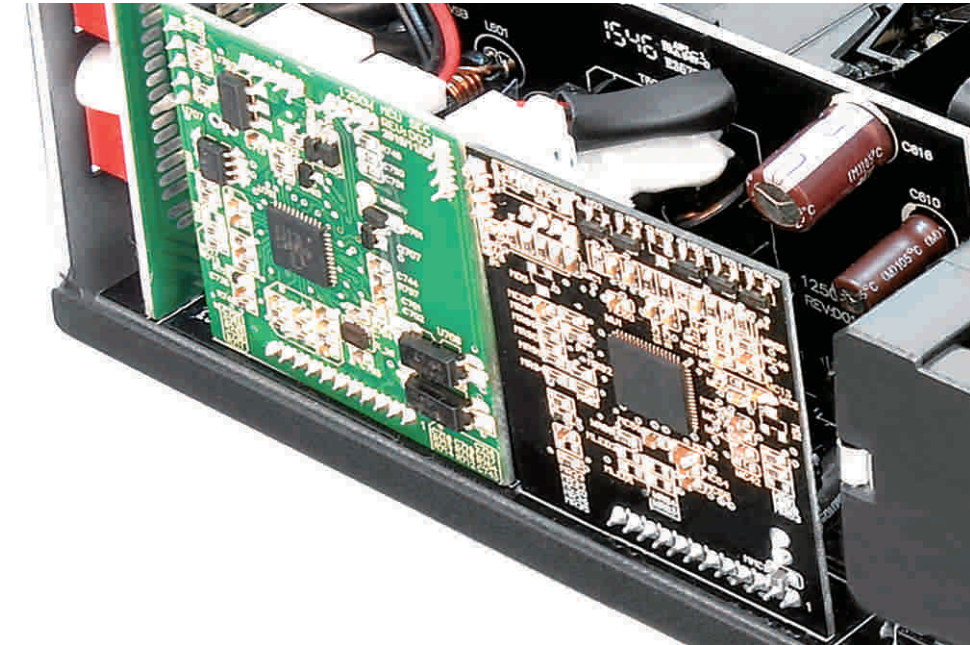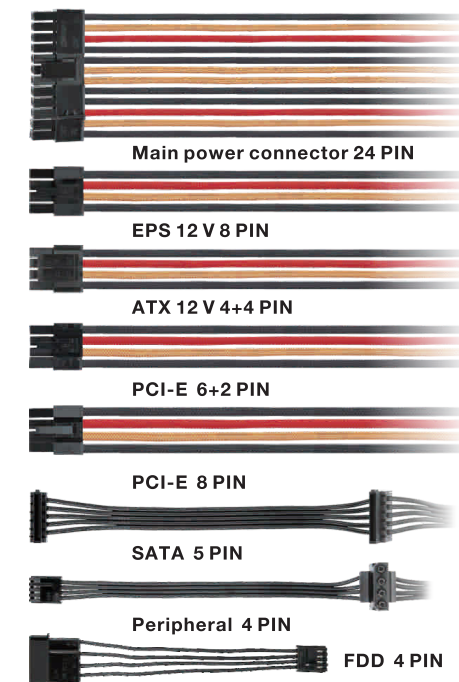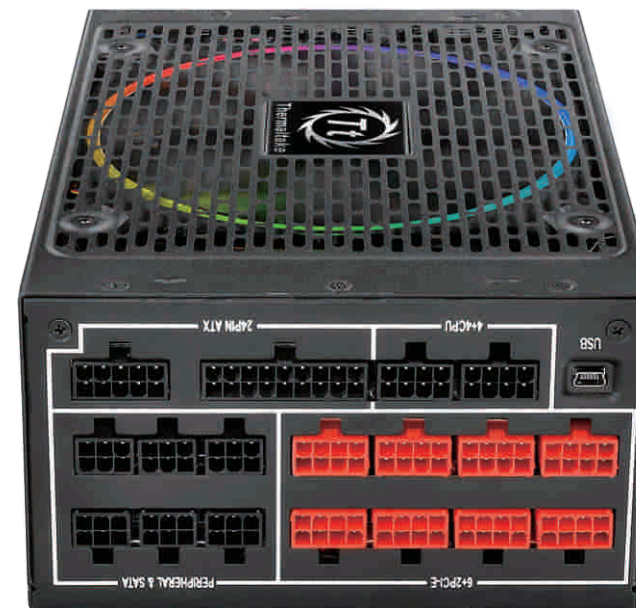

Digital Control Board

Digital power supplies support high-efficiency switching transistors that perform only necessary steps and waste less energy given off as heat. In short, digital power supplies do not dissipate power, which creates waste, and incorporate smaller, lighter transistors. Using smaller parts that work more efficiently enables Thermaltake to craft smaller and lighter power supplies, typically one of the bulkiest components in any PC.

100% All Japanese Capacitors

The Toughpower DPS G RGB series features 100% high quality Japanese brand capacitors, which greatly improves the durability and offers the highest stability and reliability.


Main power connector 24 PIN

EPS 12 V 8 PIN

ATX 12 V 4+4 PIN

PCI-E 6+2 PIN

PCI-E 8 PIN

SATA 5 PIN

Peripheral 4 PIN

FDD 4 PIN

Fully Modular Cable Management

Fully modular power supply offers cable selection for users while powering the system at an advantageous voltage. Individually sleeved cable (only available for Titanium series) and flat cable can make cable management easier, reduce clutter and increase airflow inside the chassis.

80 Plus Titanium & Gold Certified

Toughpower DPS G RGB series power supply with DPS G software delivers up to 94% efficiency under real-world load conditions, promising the lowest power losses. Additionally, Toughpower DPS G RGB series have been optimized to work with Intel's new, sixth-generation skylake processors to achieve maximum energy savings.
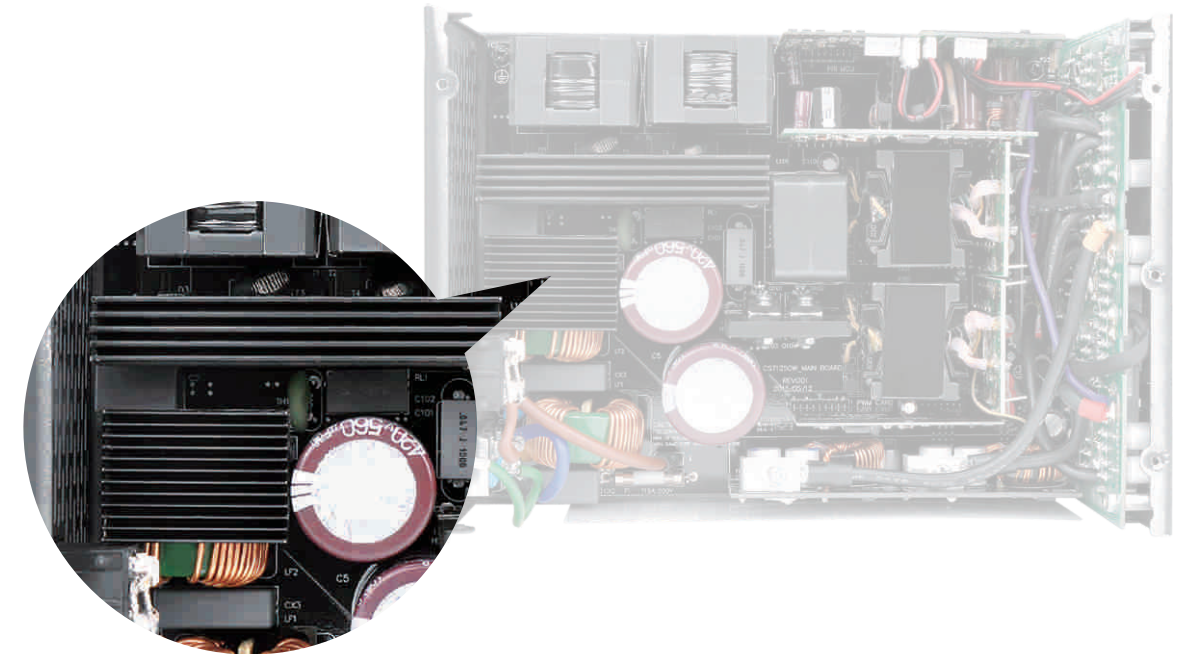
High Performance Heatsink

The heatsink in the power supply is design for optimizing the cooling system to maxmize the efficiency. The heat generated by transition loss would decrease the power efficiency. The combination of the concentrated compression fan blade and performance heatsink keeps the power supply as quiet as possible.

TOUGHPOWER DPS G **RGB** GOLD SERIES

850W/750W/650W

TOUGHPOWER DPS G **RGB** TITANIUM SERIES

1500W/1250W/1000W/850W

Smart Power Management

Smart Power Management(SPM) platform combined with digital power supply and DPS G software providing clean and stable power and three intelligent platforms – DPS G PC App 2.0, DPS G Smart Power Management Cloud 1.0, and DPS G Mobile App 1.0 – offering "Three Screens and a Cloud" service – DPS G PC APP 2.0, DPS G Smart Power Management Cloud 1.0, and DPS G Mobile APP 1.0 – for users to monitor and record the status of power consumption, voltage distribution, and electricity cost for advance usage.

What is Smart Power Management (SPM)?

Thermaltake would like to raise the awareness on the global warming issue to all PC DIY/ PC users through Smart Power Management (SPM) platform. SPM is a cloud computing platform that tracks and analyzes the PC's electricity consumption; allowing users to observe and learn about their own energy consumption by altering their behavior to achieve the goal of reducing CO_2 emission together to contribute on slowing global warming.

Smart Power Management Architecture

On the basis of DPS G Smart Power Management Cloud 1.0, users can access the PSU/VGA/ CPU data via PC or mobile devices. Users are capable of monitoring multiple PSUs via their mobile devices and achieving IT cost reduction while monitoring the PSU. Additionally, the warning alert system can reduce risk of damage and maintenance costs to your PC.

Core Features of Our Digital PSU

1

Patented
RGB
256 Colors

The World's First RGB PSU

Digitally controlled Riing RGB 256 colored PSU fan

2

Smart Power Management Reports

· ECO report
· Energy consumption report
· Energy saving plan
· Efficiency/wattage user behavior report

3

SECURITY

Security Protection

· Fan failure alert
· Over temperature alert
· Over/Under Voltage alert
· PC Off Remote Control

4

VR READY
TT POWER

TT Power VR Ready

· Sufficient wattage
· Strict regulations
· Sufficient PCI-E connectors for multiple VGA cards

Security Protection – Warning Alert & PC Off Remote Control

NEW

⚠️

Step 1   Step 2   Step 3

When the power supply operates abnormally
- Fan Fails
- Over Temperature
- Over/ under Voltage

The alert notification will be sent to your mobile device immediately.

Turn off/restart the system remotely to eliminate the damage from PSU failure.
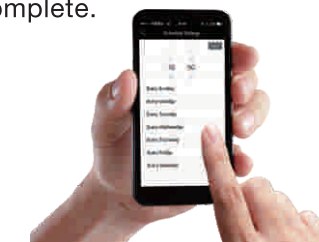
The windows system will shutdown in 30 seconds.

or

Security Protection- Schedule Shutdown

NEW

⬇️

Step 1   Step 2

When the download or process takes two hours to complete.

Schedule the system to shutdown after the download or process is complete.

The windows system will shutdown according to the schedule.

or

Smart Power Management
DPS G PC APP

The new DPS G PC APP 2.0 enables users to digitally monitor system information, such as efficiency, wattage, voltage, fan speed and temperature while using the computer. In addition it will gather and upload the key parameters data to the SPM Cloud for further analysis.

DPS G PC App – RGB LED Control

Thermaltake RGB series is the first power supply pre-installed with the pattented RGB fan and users are allowed to select any singal color or color rotation on the RGB LED digitally through the DPS G PC App.

DPS G PC App – Warning Alert

The DPS G PC app offers real-time warning alert when the fan speed, temperature (over 140°F/60°C), and voltage (over/under 5% of normal level) operates abnormally.

DPS G PC App – Smart Zero Fan

Aside from the silent and performance mode, DPS G PC App comes with the new Zero Fan mode to minimize the audible noise of your PC.

DPS G PC App - Monitoring

The DPS G PC App allows users to monitor their PSU's status in real-time. The key parameters of voltage, ampere, wattage, efficiency, and etc… will be displayed on the App.

Smart Power Management
DPS G Mobile APP

DPS G Mobile APP allows users to access, analysis and track single or multiple systems parameter information through mobile devices, plus the function to socialize with other SPM users.

Key Features: • Data Analysis   • Warning Alert   • PC Off Remote Control

DPS G Mobile App – Warning Alert & PC Off Remote Control

The SPM platform provides three alert functions: fan failure, over temperature, and abnormal voltage level warning alert. This will help users reduce the possibility of overheating their internal components and burning their PCs. When abnormal activities occur, the warning message will be sent to their mobile devices and email. The SPM platform allows users to turn off the computer remotely via the mobile app when users receive the warning message.

DPS G Mobile App – Single Comparison

Users can freely choose which PSU they want to monitor in detail, such as efficiency, fan speed, voltage, current and so on. The mobile App shows how the data changes during a period of time.

DPS G Mobile App – Total Analysis

Users can see the information about all of their PSU's, including Total Time, Total Cost, and kWh. Percentages of each item will be showed clearly, either by line chart or pie chart.
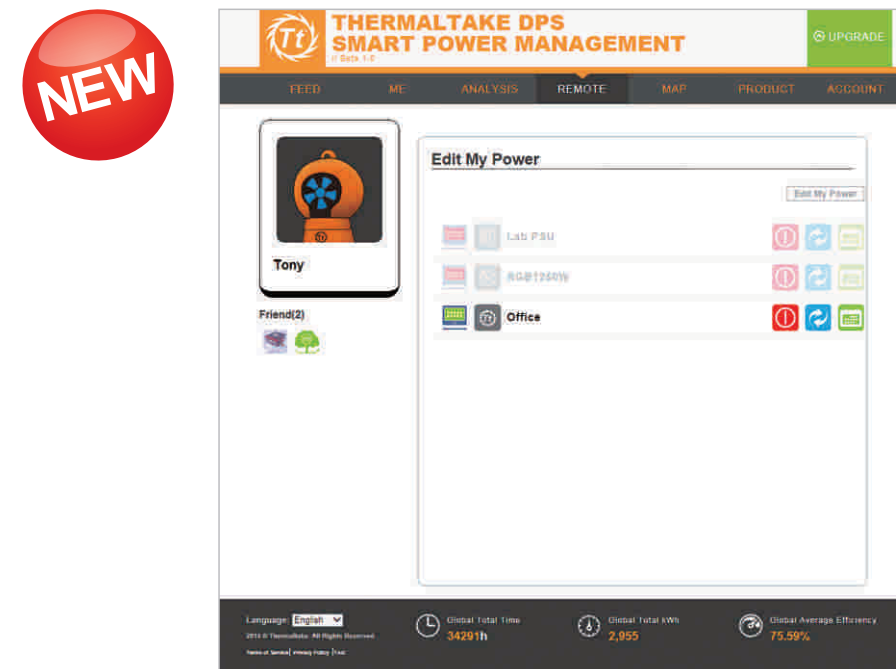
Cloud Management

DPS G SPM Cloud is a platform that offers users the ability to monitor, analyze and access single or multiple computer systems data across the network through PC and mobile devices. (https://dps.thermaltake.com)

Key Features:
- ECO Report
- Energy Consumption Report
- Energy Saving Plan
- Efficiency/Wattage User Behavior Report
- Warning Alert
- PC Off Remote Control

Cloud Management – Warning Alert & PC Off Remote Control

The security of the power supply has been upgraded. From now, users will be able to turn off/restart/schedule the system remotely via their mobile devices when they receive a warning notification for fan failure, over temperature, and over/under voltage.
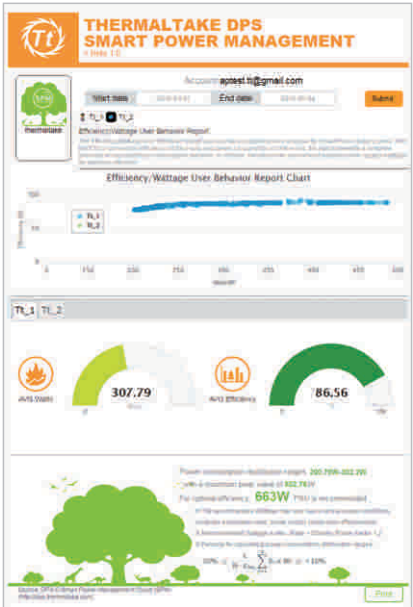
Cloud Management - Efficiency/Wattage User Behavior Report

The Power Usage Behavior report can provide a comprehensive analysis for Smart Power Supply users. With the PSU's conversion efficiency on the y-axis and power consumption on the x-axis, the report presents a complete overview of your electricity consumption behavior. In addition, the report can recommend suitable power supply wattages for optimum efficiency.
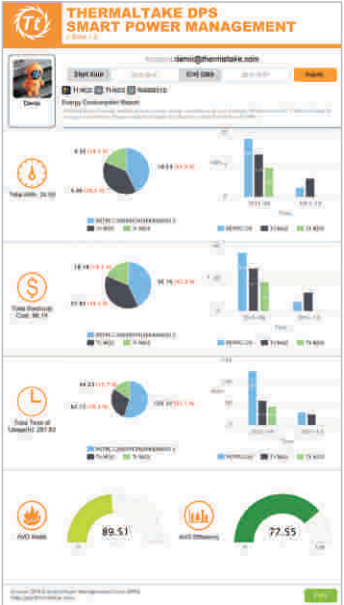
Energy Saving Plan

ECO Report
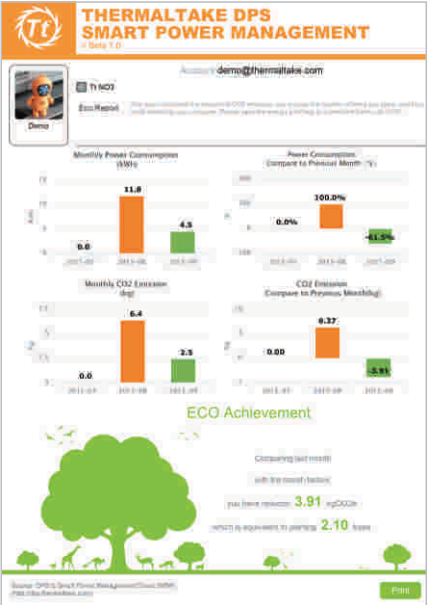
Energy Consumption Report

Users can access the Eco report and the Energy consumption report to understand the detailed information about CO2 emission and energy consumption by comparing current data with the previous 3 months.In addition, users can save moneyby setting the goal of how much kWh they are going to consume within a specific period. Users can also decide whether to receive the notification via email and mobile app in order to successfully achieve the goal of saving more money and energy.

TOUGHPOWER DPS G PLATINUM SERIES

1200W/1050W/850W

TOUGHPOWER DPS G GOLD SERIES

1050W/850W/750W/650W/550W/450W

SMART DPS G GOLD SERIES

750W/650W

SMART DPS G WHITE SERIES

450W/350W

SMART DPS G BRONZE SERIES

700W/600W/500W

SPECIFICATION

Product / Items			
Product Name	Toughpower DPS G RGB Titanium	Toughpower DPS G RGB Gold	Toughpower DPS G Platinum
Wattage Range	1500W/1250W/ 1000W/850W	850W/750W/650W	1200W/1050W/ 850W
Input Voltage	Full Range	Full Range	Full Range
80 Plus Certification	Titanium	Gold	Platinum
RGB Lighting	Yes	Yes	No
Fan	14cm RGB Fan	14cm RGB Fan	14cm
Capacitor	All Japanese	All Japanese	All Japanese
Modular	Fully Modular	Fully Modular	Fully Modular
Cable	Individually Sleeved/ Flat Cable	Flat Cable	Flat Cable
Warranty	10 Years	10 Years	10 Years

Toughpower DPS G Gold	Smart DPS G Gold	Smart DPS G Bronze	Smart DPS G White
1050W/850W/750W/ 650W/550W/450W	750W/650W	700W/600W/500W	450W/350W
Full Range	Full Range	Full Range	230V Only
Gold	Gold	Bronze	White
No	No	No	No
14cm	14cm	12cm	12cm
All Japanese	All Japanese	Main Japanese	High Quality
Fully Modular	Semi Modular	Semi Modular	Fixed
Flat Cable	Flat Cable	Flat Cable	Sleeved Cable
10 Years	7 Years	7 Years	3 Years