



thermaltake

POWER SUPPLY

TR2 S Series



TR2 S 550W

DATASHEET



thermaltake

POWER SUPPLY

TR2 S Series

3 YEAR
WARRANTY

Etched
Black Cable

Ultra Quiet
120mm Fan



Features

- 80 PLUS 230V EU Internal certified, deliver great efficiency under real world condition.
- Low-profile etched black cables.
- High amperage single +12V rail design.
- Ultra-quiet 120mm cooling fan delivers excellent airflow.
- Intel C6/C7 states & ErP ready.
- Built-in industry grade protections: OVP, UVP, OPP, SCP.
- Compact Sizing: 150mm(W)x86mm(H)x140mm(D).
- 3 years warranty.

Highlighted Features



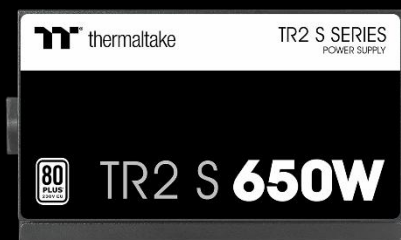
Low-Profile Etched Cables

Makes cable management easier, reduces clutter and increases airflow inside the chassis.

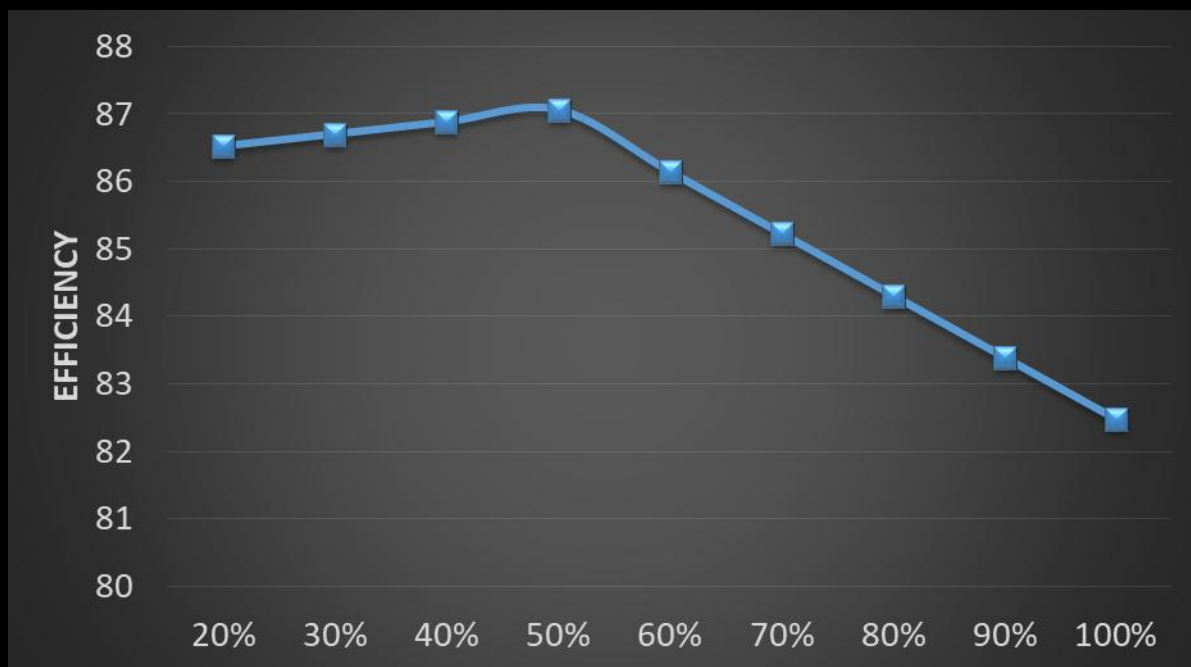


Ultra Quiet 120mm Fan

Equipped with 120mm cooling fan with intelligent RPM control guarantees cool performance and silent operation.



Eco Design



80 PLUS® 230V EU Internal Certified Efficiency

Delivers top end efficiency under real world load conditions.



Supports Energy Star 5.0* energy standard

TR2 S series is suitable for use in Energy Star-compatible computers.

Supports Intel Deep Power Down C6/C7 Status

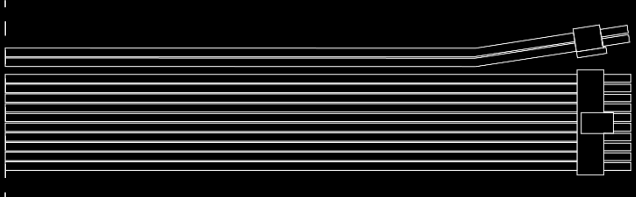
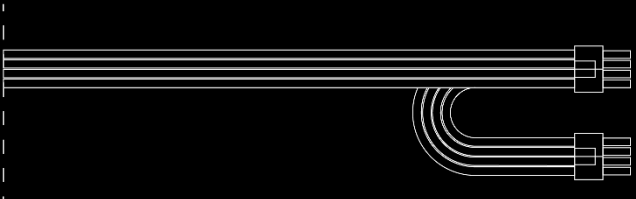
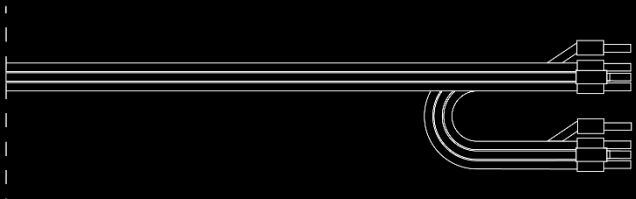
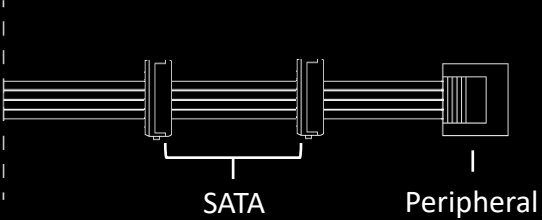
Helps your PC system operate more power efficiently.



Corresponds to the EU directives on WEEE and RoHS

Thermalright considers its full impact on the environment during manufacturing and maintains green facilities to ensure TR2 S series meets WEEE & RoHS requirements.

Connector and Cable Specification

Connector Type	Connector Quantity		Cable Quantity	Cable Length
Main Power (24Pin)	X 1		X 1	550mm
ATX 12V (4+4Pin)	X 2		X 1	600mm+150mm
PCle (6+2Pin)	X 2		X 1	450mm+150mm
SATA (4Pin)	X 4		X 2	450mm+150mm +150mm
Peripheral (4Pin)	X 2			



Specification

AC Input	Input Voltage: 200-240V~				
	Input Current: 10A Max.				
	Frequency: 50Hz - 60Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5VSB
Max Output Current	23A	17A	48A	0.5A	2.5A
Max Output Power	110W		576W	6.0W	12.5W
Total Power	650W				

GENERAL INFO	
P/N	PS-TRS-0650NNSAW*-H
Model	TRS-650AH2NXW-M
Max. Output Capacity	650W
Dimension	150mm(W)x86mm(H)x140mm(D)
PFC	Active PFC
Power Good Signal	100-500 msec
Hold-Up Time	T5 > 16msec at 50% load T6 > 1msec at 75% load
Cooling System	12cm Hydraulic Bearing Fan
ENVIRONMENT	
Operating Temperature	0°C to + 25°C
Operating Humidity	10% to 90%,non-condensing
Storage Temperature	-40°C to + 70°C
Storage Humidity	10% to 95%, non-condensing
MISCELLANEOUS	
Efficiency	80 PLUS® 230V EU Internal Certified
MTBF	100,000 hrs minimum
Safety Approval	CE(UKCA)/CB/TUV/LVD
Protection	OVP/OPP/UVP/SCP
PCIe CONNECTOR	
PCIe 6+2pin	2



Total Protection

Protections	Voltage Source		
	+3.3V	+5V	+12V
Over Voltage Protection	3.76~4.3V	5.74~7.0V	13.4~15.6V
Under Voltage Protection	2.0~2.83V	3.15~4.47V	8.1~10.5V
Over Power Protection	Protection at 110%~170% over peak load.		
Short Circuit Protection	Short circuit placed on +5V,+12V,+3.3V,-12Vwill latch off. +5VSB will auto-recovery.		