



thermaltake

POWER SUPPLY

TR2 S Series



TR2 S 700W

DATASHEET



thermatake

POWER SUPPLY

TR2 S Series

All - Flat
Black Cables

3 YEAR
WARRANTY

DC to DC
Design



Features

- 80 PLUS 230V EU certified, deliver great efficiency under real world condition.
- Low-profile flat black cables.
- High quality 105°C/221°F main capacitor.
- 700W continuous output at 30°C/86°F operating environment.
- High amperage single +12V rail design.
- DC-DC design for more precise electrical output.
- Ultra-quiet 120mm cooling fan delivers excellent airflow.
- Intel C6/C7 states & ErP ready
- Built-in industry grade protections: OCP, OVP, UVP, OPP, SCP, OTP.
- Compact Sizing: 150mm(W)x86mm(H)x140mm(D).
- 3 years warranty.

Highlighted Features

High Amperage Single +12V Rail & DC to DC Design

Powerful single +12V rail and DC to DC design for the best compatibility.

High Quality 105°C/221°F Main Capacitors

Improves the durability and offers the highest stability and reliability.

Ultra Quiet 120mm Fan

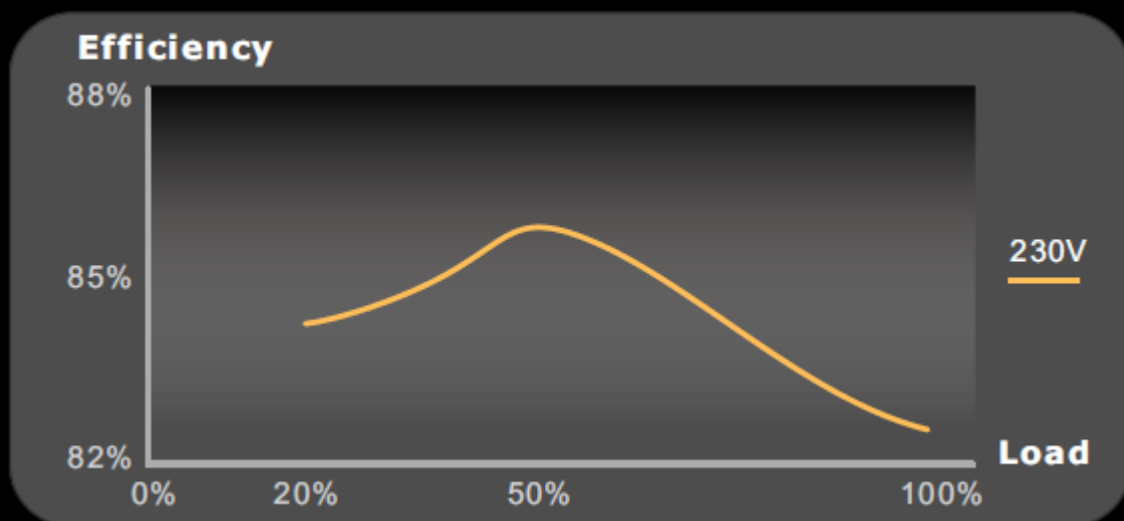
Equipped with 120mm cooling fan with intelligent RPM control guarantees cool performance and silent operation.

Low-Profile Flat Black Cables

Makes cable management easier.



Eco Design



80 PLUS® 230V EU 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

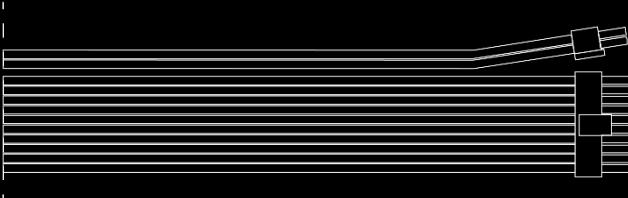
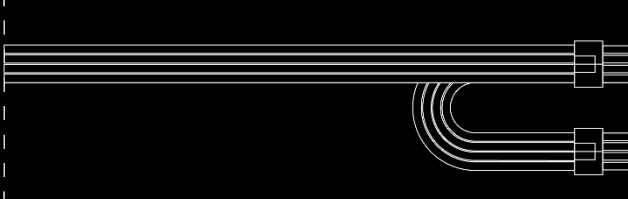
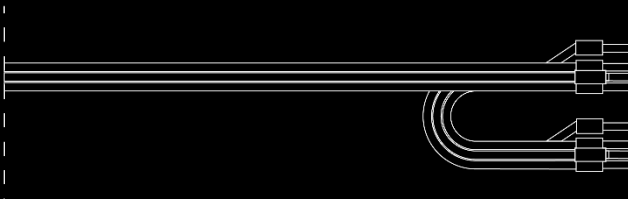
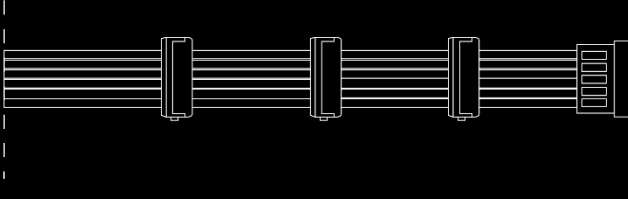
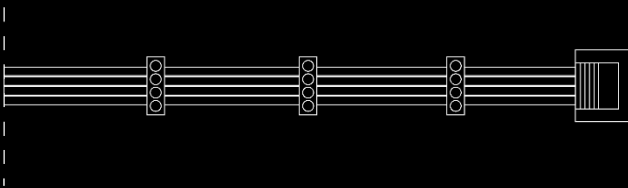
Helps your PC system operate more power efficiently.



Corresponds to the EU directives on WEEE and RoHS

Thermaltake considers its full impact on the environment during manufacturing and maintains green facilities to ensure Smart BX3 series meets WEEE & RoHS requirements.

Connector and Cable Specification

Connector Type	Connector Quantity		Cable Quantity	Cable Length
Main Power (20+4Pin)	X 1		X 1	600mm
ATX 12V (4+4Pin)	X 2		X 1	650mm+150mm
PCle (6+2Pin)	X 2		X 1	500mm+150mm
SATA (4Pin)	X 4		X 1	500mm+150mm +150mm+150mm
Peripheral (4Pin)	X 4		X 1	500mm+150mm +150mm+150mm

Specification

AC Input	Input Voltage: 200-240Vac				
	Input Current: 8A Max.				
	Frequency: 50Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5VSB
Max Output Current	18A	18A	58.3A	0.3A	2.5A
Max Output Power	100W		699.6W	3.6W	12.5W
Total Power	700W				

GENERAL INFO	
P/N	PS-TRS-0700NNSAW*-2 PS-TRS-0700NPCWEU-2 PS-TRS-0700NPCWUK-2
Model	TRS-700AH4NXW
Max. Output Capacity	700W
Dimension	150mm(W)x86mm(H)x140mm(D)
PFC	Active PFC
Power Good Signal	100-150 msec
Hold-Up Time	> 17msec at 80% load
Cooling System	12cm Hydraulic Bearing Fan
ENVIRONMENT	
Operating Temperature	5°C to + 40°C
Operating Humidity	20% to 85%,non-condensing
Storage Temperature	-40°C to + 55°C
Storage Humidity	10% to 95%, non-condensing
MISCELLANEOUS	
Efficiency	80 PLUS® 230V EU Certified
MTBF	100,000 hrs minimum
Safety Approval	FCC/ICES/CB/cTUVus
Protection	OCP/OVP/OPP/OTP/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 Current Protection	20~30A	20~30A	64~100A
Over Power Protection	Protection at 110%~170% over peak load.		
Over Temperature Protection	Protection temperature is 50°C~75°C		
Short Circuit Protection	Short circuit placed on +5V,+12V,+3.3V,-12Vwill latch off. +5VSB will auto-recovery.		