

## SMART SERIES POWER SUPPLY

## SMART BX1 550W





# SMARTBX1 550W

# **DATASHEET**









#### Features

- ATX 12V V2.3 enables most reliable and robust power delivery.
- ➤ Guaranteed to deliver 550W continuous output @ 40°C operating environment.
- > High-Quality components and single +12V rails design enable non-stop usage with stable and reliable performance.
- ▶80 PLUS® Bronze certified up to 88% efficiency.
- ➤ High quality Japanese main capacitor.
- <80mV @ +12V, <40mV@ +3.3V & +5V low ripple noise design.</p>
- >Ultra-quiet 120mm cooling fan delivers excellent airflow at an exceptionally low noise level.
- SMART BX1 series is prepared for the new Intel processors Kabylake to achieve maximum energy savings.
- ➤ Heavy-duty protection circuitry of Over Voltage, Over Power and Short-Circuit protections.
- ➤Dimension: 150mm(W)x86mm(H)x140mm(D).
- ➤ High reliability: MTBF>100,000 hours.
- ➤ Safety / EMI Approvals: CE/CB/TUV/ UL/ FCC/ BSMI.



#### Highlight Features



# RSOLAT

# **High Quality Japanese Main Capacitor**

Improves the durability and offers the highest stability and reliability.

# High Amperage Single +12V Rail

Powerful single +12V rail for the best compatibility.

#### Packing





#### Fan Curve

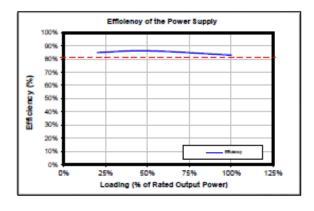




#### **Ultra Quiet Hydraulic Bearing Fan**

Ultra quiet 120mm cooling fan delivers excellent airflow.

#### **❖** ECO Design



#### 80 PLUS®Bronze Certified Efficiency

Deliver top end efficiency under real world load conditions.

#### **Supports Energy Star 5.0\* energy standard**

SMART BX1 series is suitable for use in Energy Star-compatible computers.

#### **Supports Intel Deep Power Down C6 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 BX1 series meets WEEE & RoHS requirements.



### Output Specification

AC Input	Input Voltage: 100V - 240Vac Input Current: 10A max. Frequency: 50Hz - 60Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5VSB
Max Output Current	21A	16A	38A	0.5A	2.5A
Max Output Power	105W		456W	6.0W	12.5W
Total Power	550W				

#### **❖** Total Output Connector

Connector		0.0	VC - LMS TO			
	Main Power					
Mattaga	Connector	ATX 12V	SATA	PCI-E	Peripheral	FDD
Wattage	(20+4Pin)	(4+4Pin)	(4Pin)	(6+2Pin)	(4Pin)	Adapter
550W	1	1	6	2	4	1

Wattage	Connector Type	Connector Quantity & Cable Length	
550W	Main Power (24pin)	1 x 24pin Main connector (600mm)	
	ATX 12V (4+4pin)	1 x ATX 12V 4+4pin connector (650mm )	
	PCI-E (6+2pin)	2 x PCI-E 6+2pin connectors (500mm + 150mm)	
	SATA	3 x SATA connectors (500mm + 150mm + 150mm) 3 x SATA connectors (500mm + 150mm + 150mm)	
	Peripheral & FDD	4 x Peripheral connectors + 1 x FDD connector (500mm + 150mm + 150mm + 150mm)	



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GENERAL INFO				
P/N	PS-SPD-0550NNFABU-1			
Туре	ATX 12V v2.3 and EPS v2.92			
Max. Output Capacity	550W			
Peak Output Capacity	660W			
Color	Black			
Dimension (W/H/D)	150mm(W) x 86mm(H) x 140mm(D)			
PFC	Active PFC			
Power Good Signal	100-500 msec			
Hold-Up Time	> 16msec at 70% of full load			
AC INPUT				
Input Current	10A max.			
Input Frequency Range	50Hz - 60Hz			
Input Voltage	100V – 240V~			
	ENVIRONMENTAL			
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			
Cooling System	12cm Hydraulic bearing fan			
MISCELLANEOUS				
Efficiency	Meet 80 PLUS®Bronze at 115Vac input.			
MTBF	100,000 hrs minimum			
Safety Approval	CE/CB/TUV/ UL/ FCC/ BSMI			
PCI-E CONNECTOR				
PCI-E 6+2pin	2			

# SMART SERIES POWER SUPPLY

## **SMART BX1 550W**

#### **❖** Total Protection

Voltage Source	Over Voltage Protection	
Ü	Protection Point	
+3.3V	3.76V~4.3V	
+5V	5.74V~7.0V	
+12V	13.4V~15.6V	
Over Power Protection	Protection at 110%~170% over peak load.	
Short Circuit Protection	Activated when any DC rails short circuited.	