

BITFENIX

FORMULA Bronze Series

BF700B, BF600B, BF500B, BF400B

Product Kit

BITFENIX
F@RMULA
B@RONZE





BITFENIX FORMULA BRONZE

Model Name:

BF700B, BF600B, BF500B, BF400B

Max Wattage:

700W, 600W, 500W, 400W

Type: ATX12V 2.4/ EPS12V 2.0

PFC: Active PFC

Efficiency: 80Plus Bronze Certified





Features



Guaranteed Continuous power delivery with 24h/7d Operation



Up to 87% efficiency @ Typical loading.



PF value up to 0.96



Advance voltage switching circuit from +12V to miner rail to provide the best stability and output quality.



Features



Most power on +12V will support higher level graphic card in all wattage range.



works for Intel C6/C7 Sleep States



120mm silence-optimized and long-life fan



Intelligent Fan Control curve defined



18AWG Long output DC cable, 600mm for CPU & 500mm for PCI-E 2.0.



Ensure tightest DC voltage regulation.



Over Current Protection (OCP), Over Voltage Protection (OVP),
Under Voltage Protection (UVP), Over Power Protection (OPP)
Short Circuit Protection (SCP), Over Temperature Protection (OTP)
No Load Operation (NLO), Surge & Inrush Protection (SIP)



Features



2 x 6+2pin PCI-E 2.0 connectors for multi-GPU Support (400W & 500W)
4 x 6+2pin PCI-E 2.0 connectors for multi-GPU Support (600W & 700W)



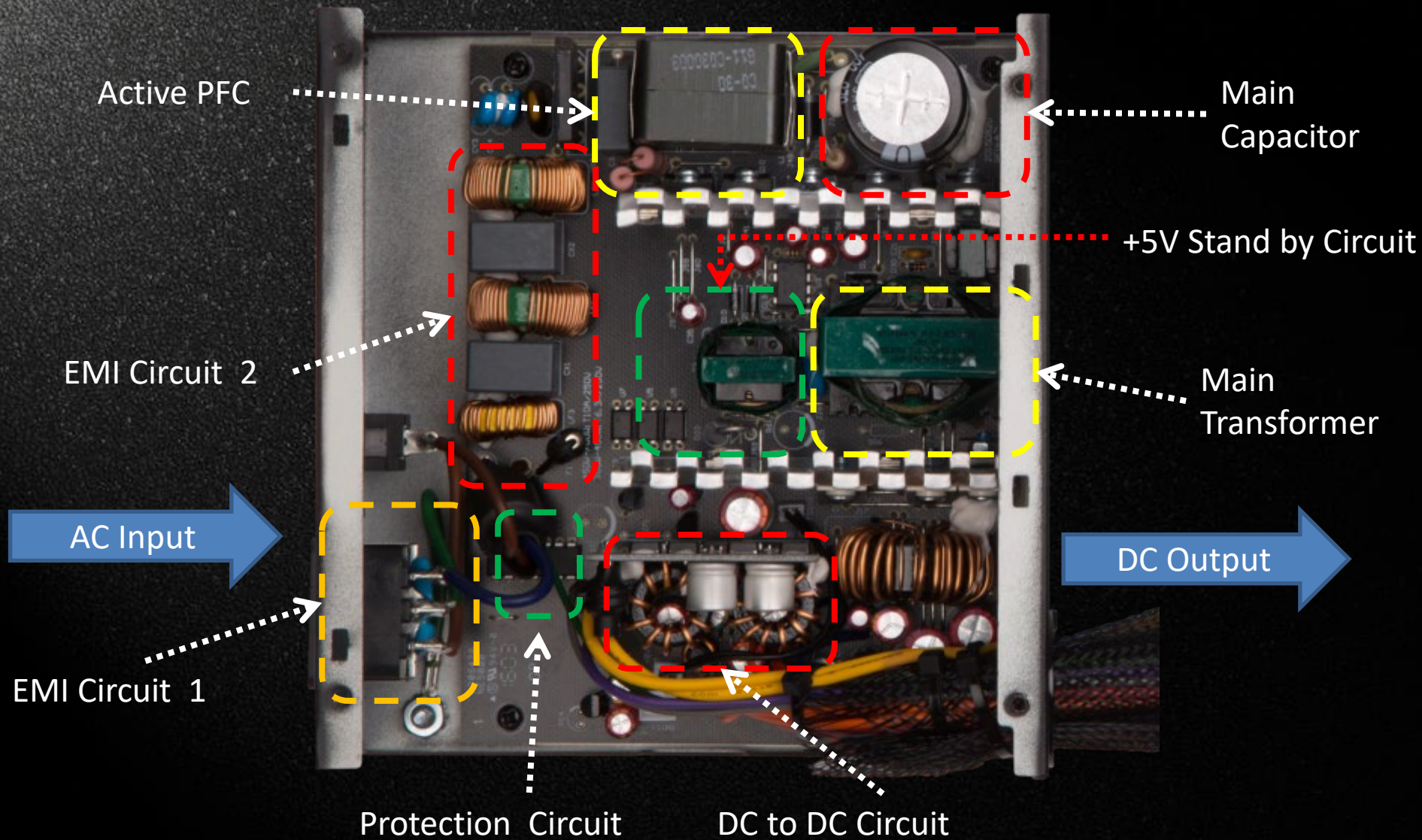
Complies with the latest European Environment Regulation



BitFenix 24/7 customer service support and solid RMA service

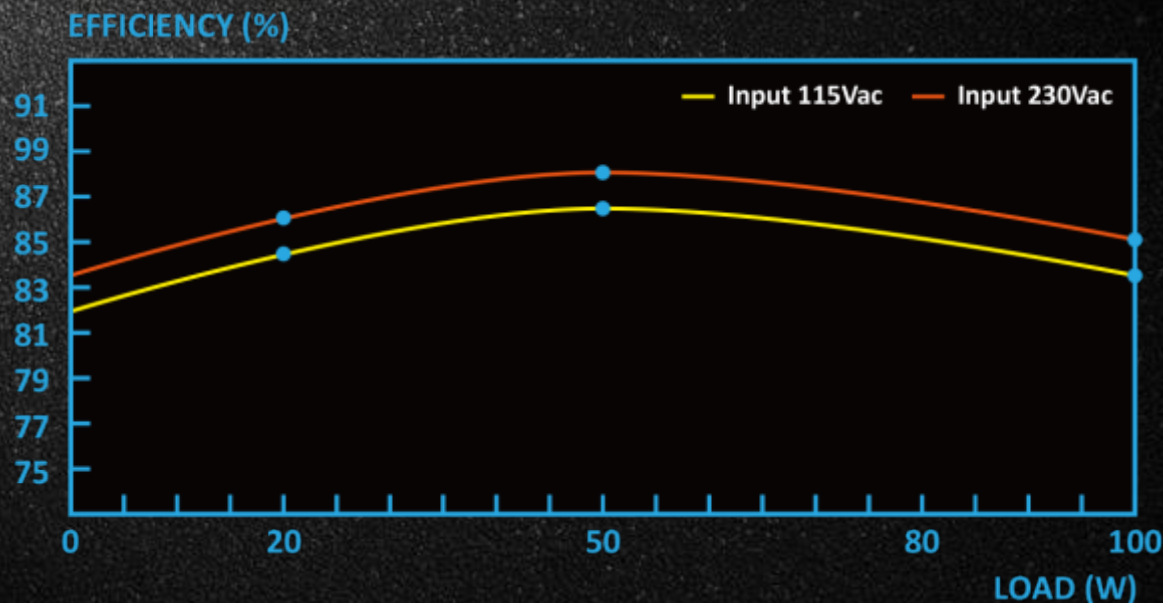


Technology





82%+ Efficiency at all time



HIGH EFFICIENCY


with 82+ (0% to 100% load)/ 85+ (40% to 70% load) high efficiency circuit, energy and money saving for end user, and generate less heat, more stable power output. Generate up to 70% less heat and consume 25% less power than standard PSU's.


100-240V (90V min to 264Vmax) Full range design for worldwide coverage, and with Active PFC & DC to DC Design circuit benefit planet Earth, for batter energy saving.




Efficiency

BF700B									
AC Input Voltage		115Vac							
TOTAL Wattage		700W							
Combine		696W	130W		3.6W	12.5W			
Voltage		+12V	+3.3V	+5V	-12V	+5Vsb			
Max Current		58A	18A	22A	0.3A	2.5A			
Rail		+12V	+3.3V	+5V	-12V	+5SB	DC Power In Total(W)	AC Power Reading(W)	Efficiency (%)
20% Loading	Current(A)	9.52	3.10	2.54	0.05	0.44	140.94	159.74	88.2%
	Voltage(V)	12.08	3.36	5.03	11.59	5.05			
50% Loading	Current(A)	23.80	7.75	6.35	0.13	1.10	351.45	403.23	87.2%
	Voltage(V)	12.05	3.33	5.01	11.78	5.01			
100% Loading	Current(A)	47.60	15.50	12.69	0.26	2.20	698.76	836.58	83.5%
	Voltage(V)	12.01	3.25	4.95	11.91	4.91			

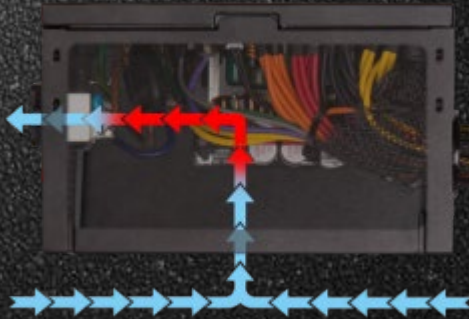
BF500B									
AC Input Voltage		115Vac							
TOTAL Wattage		500W							
Combine		492W	110W		3.6W	12.5W			
Voltage		+12V	+3.3V	+5V	-12V	+5Vsb			
Max Current		41A	18A	16A	0.3A	2.5A			
Rail		+12V	+3.3V	+5V	-12V	+5SB	DC Power in Total(W)	AC Power Reading(W)	Efficiency (%)
20% Loading	Current(A)	6.53	2.44	2.17	0.05	0.43	100.22	118	84.9%
	Voltage(V)	12.01	3.32	5.05	11.80	5.04			
50% Loading	Current(A)	16.32	6.10	5.42	0.13	1.07	250.41	289	86.6%
	Voltage(V)	12.01	3.30	5.04	11.86	5.03			
100% Loading	Current(A)	32.64	12.20	10.84	0.26	2.15	500.11	599.37	83.4%
	Voltage(V)	12.00	3.29	5.02	11.95	5.01			

BF600B									
AC Input Voltage		115Vac							
TOTAL Wattage		600W							
Combine		600W	120W		3.6W	12.5W			
Voltage		+12V	+3.3V	+5V	-12V	+5Vsb			
Max Current		50A	20A	17A	0.3A	2.5A			
Rail		+12V	+3.3V	+5V	-12V	+5SB	DC Power In Total(W)	AC Power Reading(W)	Efficiency (%)
20% Loading	Current(A)	8.02	2.77	2.36	0.05	0.44	121.21	137.6	88.1%
	Voltage(V)	12.12	3.36	5.06	11.64	5.05			
50% Loading	Current(A)	20.06	6.93	5.89	0.13	1.09	300.96	343.21	87.7%
	Voltage(V)	12.02	3.33	5.04	11.73	5.04			
100% Loading	Current(A)	40.11	13.86	11.78	0.26	2.18	600.08	719.58	83.4%
	Voltage(V)	12.00	3.30	5.01	11.92	5.00			

BF400B									
AC Input Voltage		115Vac							
TOTAL Wattage		400W							
Combine		492W	100W		3.6W	12.5W			
Voltage		+12V	+3.3V	+5V	-12V	+5Vsb			
Max Current		33A	16A	15A	0.3A	2.5A			
Rail		+12V	+3.3V	+5V	-12V	+5SB	DC Power in Total(W)	AC Power Reading(W)	Efficiency (%)
20% Loading	Current(A)	5.04	2.10	1.97	0.05	0.42	80.77	95.51	84.6%
	Voltage(V)	12.10	3.38	5.06	11.79	5.06			
50% Loading	Current(A)	12.60	5.26	4.93	0.13	1.05	200.60	233.37	86.0%
	Voltage(V)	12.03	3.33	5.01	11.85	5.01			
100% Loading	Current(A)	25.20	10.52	9.86	0.25	2.10	399.60	480.95	83.1%
	Voltage(V)	12.01	3.31	4.93	11.93	5.00			



PSU Thermal Solution



With the wind & Clean Design

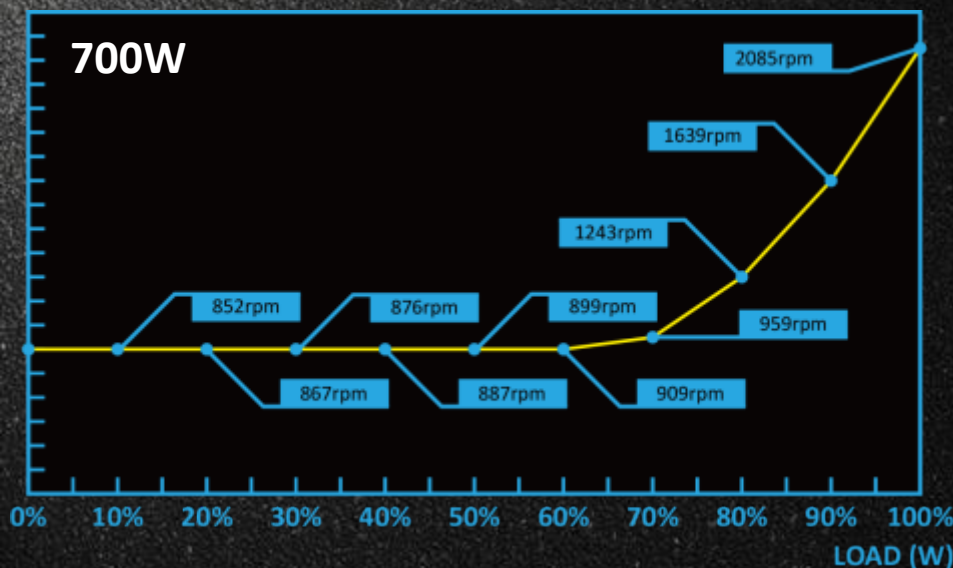


Intelligent Fan control circuit with 120mm Silent Rifle Fan,
Noise level lower than 18dBA while lower than 60% load.

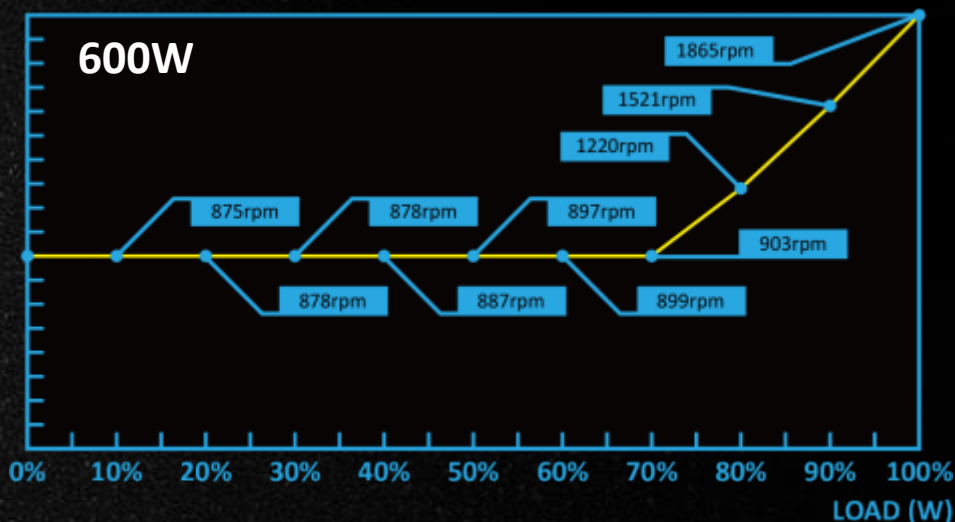


PSU Low Acoustic Solution

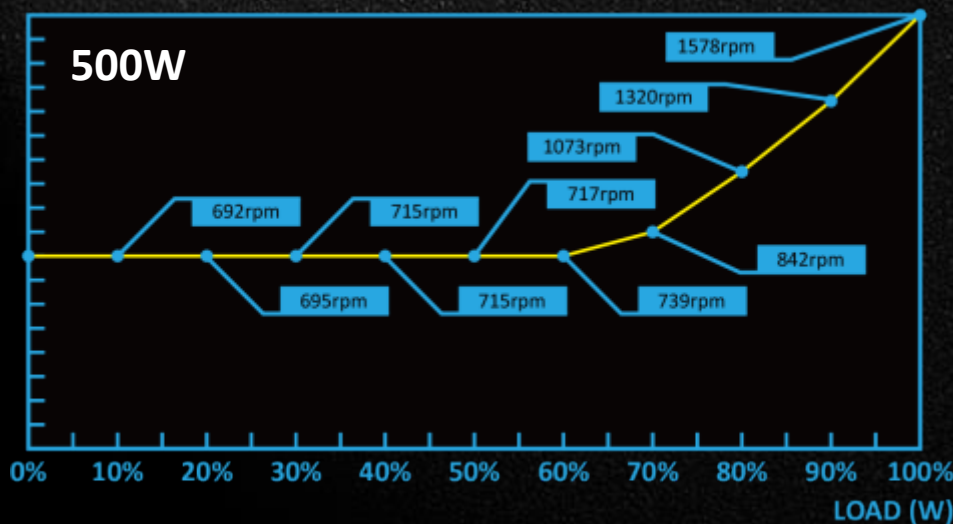
700W



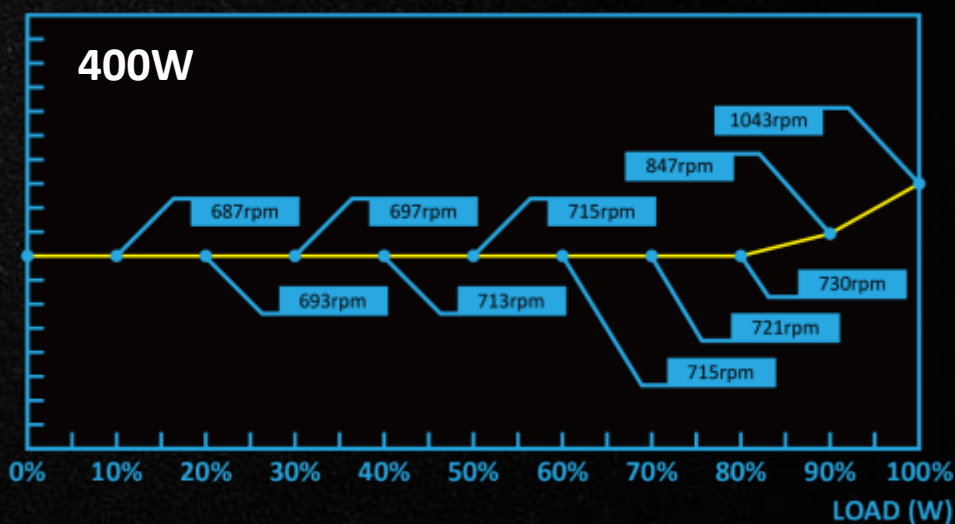
600W



500W



400W





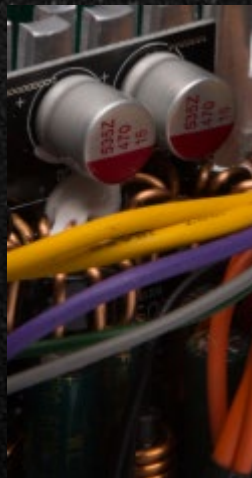
SLI & Selected Capacitor



Support Nvidia SLI and AMD Crossfire for 600W/ 700W



Japanese Main Capacitor



Solid Capacitor



105°C High Quality Capacitor



Output Cable- 400W & 500W

Cable Specification

Connector Type	Quantity
24Pin	1
4+4Pin	1
PCI-E 6+2Pin	2
PCI-E 6Pin	0
SATA	5
PATA	2
Floppy	1

550mm

P1

24Pin

600mm

P2

4+4Pin

500mm

P3

PCI-E 6+2Pin

150mm

P4

PCI-E 6+2Pin

400mm

P5

SATA

150mm

P6

SATA

150mm

P7

SATA

150mm

P8

SATA

400mm

P9

SATA

150mm

P10

PATA

150mm

P11

PATA

150mm

P12

Floppy



Output Cable- 600W & 700W

Cable Specification

Connector Type	Quantity
24Pin	1
4+4Pin	1
PCI-E 6+2Pin	4
PCI-E 6Pin	0
SATA	6
PATA	2
Floppy	1

550mm

P1

24Pin

600mm

P2

4+4Pin

500mm

P3

PCI-E 6+2Pin

150mm

P4

PCI-E 6+2Pin

500mm

P5

PCI-E 6+2Pin

150mm

P6

PCI-E 6+2Pin

400mm

P7

SATA

150mm

P8

SATA

150mm

P9

SATA

150mm

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SATA

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P11

SATA

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P12

SATA

150mm

P13

PATA

150mm

P14

PATA

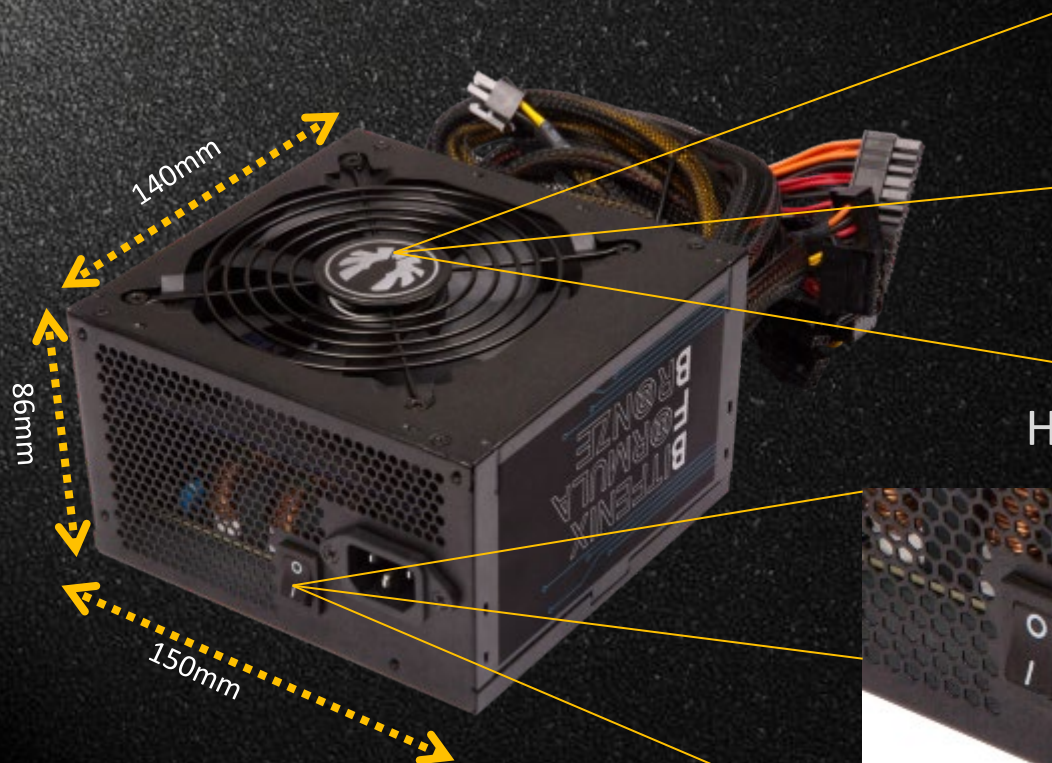
150mm

P15

Floppy



Housing



High Quality Aluminum BitFenix Logo



Safe Power I/O switch to prevent unexpected surge

Compact Dimension



Environment friendly,
Under RoHS & WEEE regulations



MODEL (型號)	BF700B				
AC INPUT (輸入)	100-240VAC, 47-63Hz, 10-5A				
DC OUTPUT (輸出)	+5V	+3.3V	+12V	-12V	+5VSB
MAX LOAD (輸出電流)	18A	22A	58A	0.3A	2.5A
MAX OUTPUT POWER (輸出功率)	130W		696W	3.6W	12.5W
TOTAL POWER (瓦數)	700W				



• WARNING! HAZARDOUS AREA

SAFETY INSTRUCTIONS:
DO NOT REMOVE THE COVER.
NO SERVICEABLE COMPONENTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
請勿開啟外蓋, 避免觸電!

• WARNUNG! GEFAHRENZONE

SICHERHEITSHINWEISE:
VOR DEM ÖFFNEN DES GERÄTES NETZSTECKER ZIEHEN.
KEINE SERVICEERLEBANTEN BAUTEILE ENTHALTEN.
SERVICEARBEITEN SOLLTEN NUR VON AUTORISIERTEM
FACHPERSONAL DURCHFÜHRT WERDEN.



MADE IN CHINA



MODEL (型號)	BF600B				
AC INPUT (輸入)	100-240VAC, 47-63Hz, 9-4.5A				
DC OUTPUT (輸出)	+5V	+3.3V	+12V	-12V	+5VSB
MAX LOAD (輸出電流)	17A	20A	50A	0.3A	2.5A
MAX OUTPUT POWER (輸出功率)	120W		600W	3.6W	12.5W
TOTAL POWER (瓦數)	600W				



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MADE IN CHINA



MODEL (型號)	BF500B				
AC INPUT (輸入)	100-240VAC, 47-63Hz, 8-4A				
DC OUTPUT (輸出)	+5V	+3.3V	+12V	-12V	+5VSB
MAX LOAD (輸出電流)	16A	18A	41A	0.3A	2.5A
MAX OUTPUT POWER (輸出功率)	110W		492W	3.6W	12.5W
TOTAL POWER (瓦數)	500W				



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MADE IN CHINA



MODEL (型號)	BF400B				
AC INPUT (輸入)	100-240VAC, 47-63Hz, 6-3A				
DC OUTPUT (輸出)	+5V	+3.3V	+12V	-12V	+5VSB
MAX LOAD (輸出電流)	15A	16A	33A	0.3A	2.5A
MAX OUTPUT POWER (輸出功率)	100W		396W	3.6W	12.5W
TOTAL POWER (瓦數)	400W				



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SERVICEARBEITEN SOLLTEN NUR VON AUTORISIERTEM
FACHPERSONAL DURCHFÜHRT WERDEN.



MADE IN CHINA



System Built- 600W & 700W





System Built- 400W & 500W





The End.