

DEVELOPED
IN GERMANY

be quiet!®



PURE POWER 12 M

EXCEPTIONAL QUIET, SUPERIOR FEATURES

1000W • 850W • 750W • 650W • 550W

IDEAL APPLICATIONS

Gaming systems with latest graphic cards
Silent PC builds
Office applications
Home theater systems

HIGHLIGHTS

80 PLUS® Gold efficiency
Fulfills all ATX 3.0 specifications
Exceptionally silent be quiet! fan
Modular cables

Exceptional Quiet, Superior Features

Pure Power 12 M is ATX 3.0 compliant and PCIe 5.0 compatible, offers 80 PLUS® Gold efficiency and a silence-optimized 120mm be quiet! fan.

Highlights

- 80 PLUS® Gold efficiency (up to 93.2%)
- ATX 3.0 PSU with full support for PCIe 5.0 GPUs and GPUs with 6+2 pin connectors
- Handles massive power excursions
- Exceptionally silent 120mm be quiet! fan
- Advanced stability and voltage regulation thanks to LLC technology
- 2 strong 12V-rails
- Modular cables for maximum build flexibility
- One PCIe 5.0 12VHPWR with up to 600W and up to 4 PCIe 6+2 connectors for overclocked high-end GPUs
- Full suite of safety features
- Meets latest requirements for modern standby
- 10-year manufacturer's warranty



PURE POWER 12 M

EXCEPTIONAL QUIET, SUPERIOR FEATURES

Technical Data			
IN GENERAL	Model	1000W	850W
	Article no.	BN345	BN344
	EAN code	4260052189504	4260052189498
	Voltage (Vac) / Frequency (Hz)	100-240 / 50-60	
	Dimensions (L x W x H) (mm)	160 x 150 x 86	
	ATX 12V 3.0 / ATX 12V 2.x / EPS 12V 2.92	✓ / ✓ / ✓	
	Silence-optimized be quiet! fan (mm)	120	
	Noise level (dB(A)) at 10 / 20 / 50 / 100% load	9.3 / 9.3 / 9.6 / 31.7	9.3 / 9.4 / 9.5 / 25.7
	12V rail (Multi-Rail) / 12V Single Rail	2 / -	
	Overclocking Key / Jumper	- / -	
	Power Good signal	100-150ms	
	PFC	active	
	Certification	80 PLUS® Gold	
	Efficiency (%) at 230V, 2% / 10% / 20% / 50% / 100% load	75.9 / 88.4 / 92.3 / 93.1 / 90.8	73.8 / 87.1 / 91.7 / 93.2 / 91.2
	Energy Star 8.0 compatible	✓	
	ErP ready / Power in stand-by (W)	✓ / <0.1	
	OCP, OVP, UVP, SCP, OPP, OTP	✓	
	Lifetime of PSU at 25°C (h)	>100,000	
CABLES	No. of cables	8	
	Maximum cable length (cm)	95	
	Length of ATX-connection cable (cm)	55	
	Modular cable management	✓	
	Sleeved cables	20+4-Pin	
	Flat cables	P4+4, P8, PCIe, drives	
CONNECTORS	ATX-mainboard (20+4-pin)	✓	
	12VHPWR cable I W	1 600	
	PCI-express (6+2-pin)	4	
	P8/P4 connector	1x P4+4, 1x P8	
	S-ATA	6	
	P-ATA	2	

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Technical Data					
IN GENERAL	Model	750W		650W	550W
	Article no.	BN343		BN342	BN341
	EAN code	4260052189481		4260052189474	4260052189467
	Voltage (Vac) / Frequency (Hz)	100-240 / 50-60			
	Dimensions (L x W x H) (mm)	160 x 150 x 86			
	ATX 12V 3.0 / ATX 12V 2.x / EPS 12V 2.92	✓ / ✓ / ✓			
	Silence-optimized be quiet! fan (mm)	120			
	Noise level (dB(A)) at 10 / 20 / 50 / 100% load	8.4 / 8.5 / 8.9 / 24		8.1 / 8.2 / 9.1 / 19.9	8 / 8 / 8.2 / 17.1
	12V rail (Multi-Rail) / 12V Single Rail	2 / -			
	Overclocking Key / Jumper	- / -			
	Power Good signal	100-150ms			
	PFC	active			
	Certification	80 PLUS® Gold			
	Efficiency (%) at 230V, 2% / 10% / 20% / 50% / 100% load	75.7 / 86.6 / 91.5 / 92.6 / 90.6		73.3 / 86.4 / 90 / 92.7 / 90.5	70.4 / 85.2 / 89.3 / 92.8 / 90.9
	Energy Star 8.0 compatible	✓			
	ErP 2014 ready / Power in stand-by (W)	✓ / <0.1			
	OCP, OVP, UVP, SCP, OPP, OTP	✓			
Lifetime of PSU at 25°C (h)	>100,000				
CABLES	No. of cables	7			6
	Maximum cable length (cm)	95			
	Length of ATX-connection cable (cm)	55			
	Modular cable management	✓			
	Sleeved cables	20+4-Pin			
	Flat cables	P4+4, P8, PCIe, drives	P4+4, P4, PCIe, drives	P4+4, PCIe, drives	
CONNECTORS	ATX-mainboard (20+4-pin)	✓			
	12VHPWR cable I W	1 600	1 450	1 300	
	PCI-express (6+2-pin)	2			
	P8/P4 connector	1x P4+4, 1x P8	1x P4+4, 1x P4	1x P4+4	
	S-ATA	5			
	P-ATA	2			

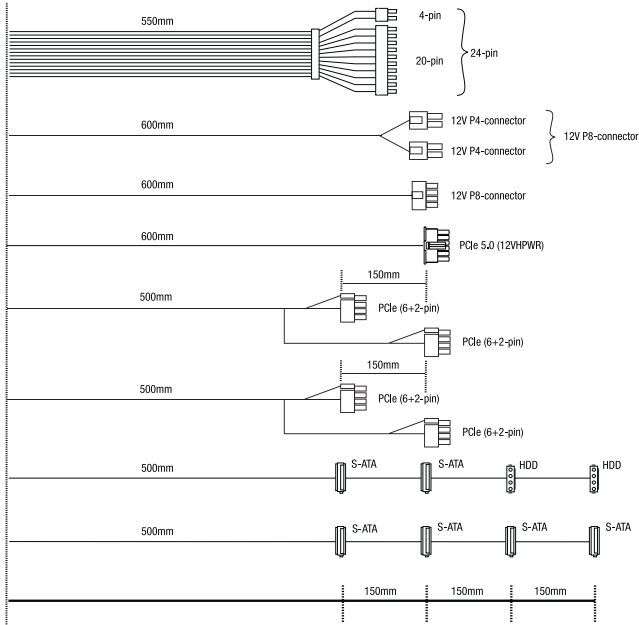
Output Data												
Pure Power 12 M 1000W	AC Input	100 - 240Vac 50 - 60Hz 12 - 6A										
	DC Output	3.3V	5V	12V1	12V2	-12V	5VSB					
	Max. Current	22A	22A	46A	42A	0.3A	3A					
	Max. Combined Power	120W		1000W			3.6W	15W				
		1000W										
Pure Power 12 M 850W	AC Input	100 - 240Vac 50 - 60Hz 12 - 6A										
	DC Output	3.3V	5V	12V1	12V2	-12V	5VSB					
	Max. Current	22A	22A	40A	36A	0.3A	3A					
	Max. Combined Power	120W		850W			3.6W	15W				
		850W										
Pure Power 12 M 750W	AC Input	100 - 240Vac 50 - 60Hz 10 - 5A										
	DC Output	3.3V	5V	12V1	12V2	-12V	5VSB					
	Max. Current	20A	20A	36A	32A	0.3A	3A					
	Max. Combined Power	120W		750W			3.6W	15W				
		750W										
Pure Power 12 M 650W	AC Input	100 - 240Vac 50 - 60Hz 10 - 5A										
	DC Output	3.3V	5V	12V1	12V2	-12V	5VSB					
	Max. Current	20A	20A	32A	28A	0.3A	3A					
	Max. Combined Power	120W		650W			3.6W	15W				
		650W										
Pure Power 12 M 550W	AC Input	100 - 240Vac 50 - 60Hz 10 - 5A										
	DC Output	3.3V	5V	12V1	12V2	-12V	5VSB					
	Max. Current	20A	20A	28A	24A	0.3A	3A					
	Max. Combined Power	120W		550W			3.6W	15W				
		550W										

PURE POWER 12 M

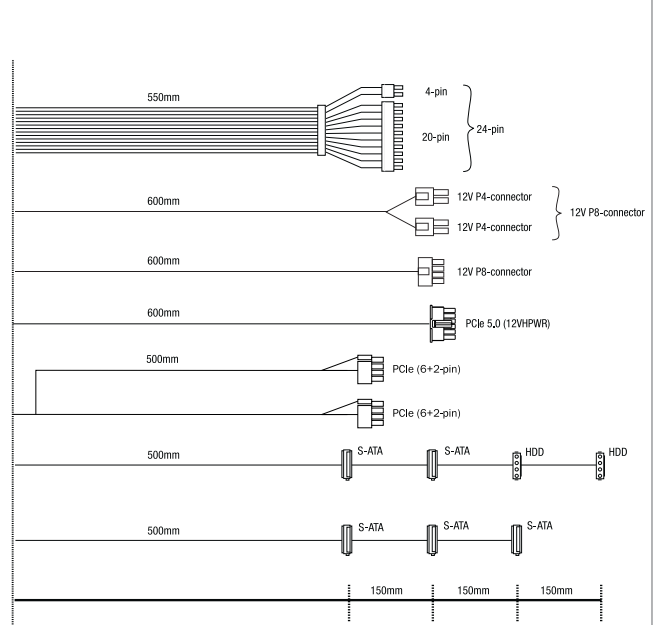
EXCEPTIONAL QUIET, SUPERIOR FEATURES

Cables

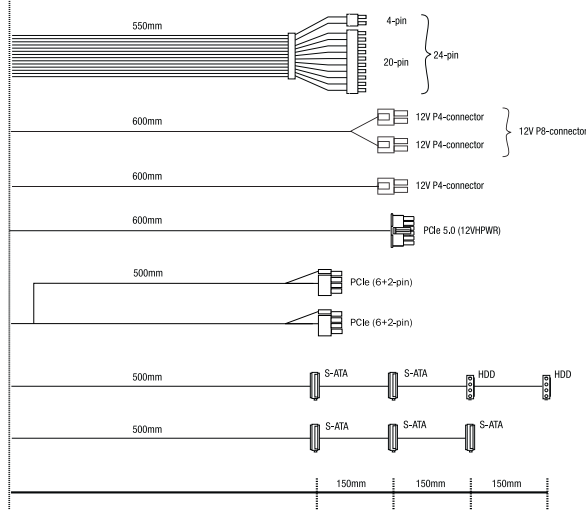
1000W / 850W



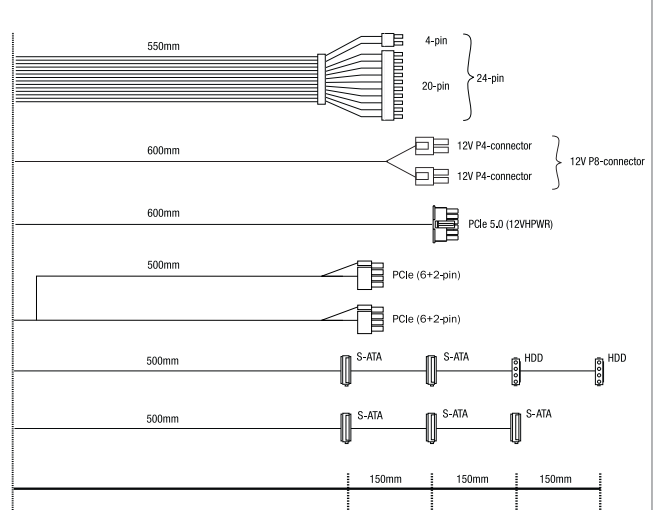
750W



650W



550W











PURE POWER 12 M

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Logistics data			
Region	Model	Article no.	EAN code
EU	Pure Power 12 M 1000W	BN345	4260052189504
EU	Pure Power 12 M 850W	BN344	4260052189498
EU	Pure Power 12 M 750W	BN343	4260052189481
EU	Pure Power 12 M 650W	BN342	4260052189474
EU	Pure Power 12 M 550W	BN341	4260052189467
US	Pure Power 12 M 1000W	BN506	4260052189801
US	Pure Power 12 M 850W	BN505	4260052189795
US	Pure Power 12 M 750W	BN504	4260052189788
US	Pure Power 12 M 650W	BN503	4260052189771
US	Pure Power 12 M 550W	BN502	4260052189764
AU	Pure Power 12 M 1000W	BN717	4260052189900
AU	Pure Power 12 M 850W	BN716	4260052189894
AU	Pure Power 12 M 750W	BN715	4260052189887
AU	Pure Power 12 M 650W	BN714	4260052189870
AU	Pure Power 12 M 550W	BN713	4260052189863
AR	Pure Power 12 M 1000W	BN511	4260052189856
AR	Pure Power 12 M 850W	BN510	4260052189849
AR	Pure Power 12 M 750W	BN509	4260052189832
AR	Pure Power 12 M 650W	BN508	4260052189825
AR	Pure Power 12 M 550W	BN507	4260052189818
TW	Pure Power 12 M 1000W	BN722	4260052189955
TW	Pure Power 12 M 850W	BN721	4260052189948
TW	Pure Power 12 M 750W	BN720	4260052189931
TW	Pure Power 12 M 650W	BN719	4260052189924
TW	Pure Power 12 M 550W	BN718	4260052189917
CN	Pure Power 12 M 1000W	BN727	4260052190005
CN	Pure Power 12 M 850W	BN726	4260052189993
CN	Pure Power 12 M 750W	BN725	4260052189986
CN	Pure Power 12 M 650W	BN724	4260052189979
CN	Pure Power 12 M 550W	BN723	4260052189962
JP	Pure Power 12 M 1000W	BN757	4260052190593
JP	Pure Power 12 M 850W	BN756	4260052190586
JP	Pure Power 12 M 750W	BN755	4260052190579
JP	Pure Power 12 M 550W	BN754	4260052190562

Certifications

Type Approved
Safety
Regular Production
Surveillance

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