

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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EXCEPTIONAL QUIET, SUPERIOR FEATURES

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			

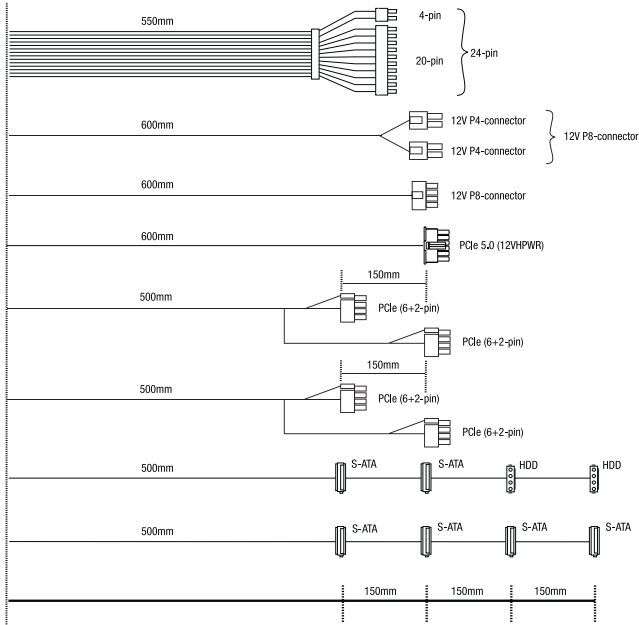
Output Data											
Pure Power 12 M 1000W	AC Input	100 - 240Vac 50 - 60Hz 12 - 6A									
	DC Output	3.3V	5V	12V1	12V2	-12V	5VSB				
	Max. Current	22A	22A	46A	42A	0.3A	3A				
	Max. Combined Power	120W		1000W			3.6W 15W				
		1000W									
Pure Power 12 M 850W	AC Input	100 - 240Vac 50 - 60Hz 12 - 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

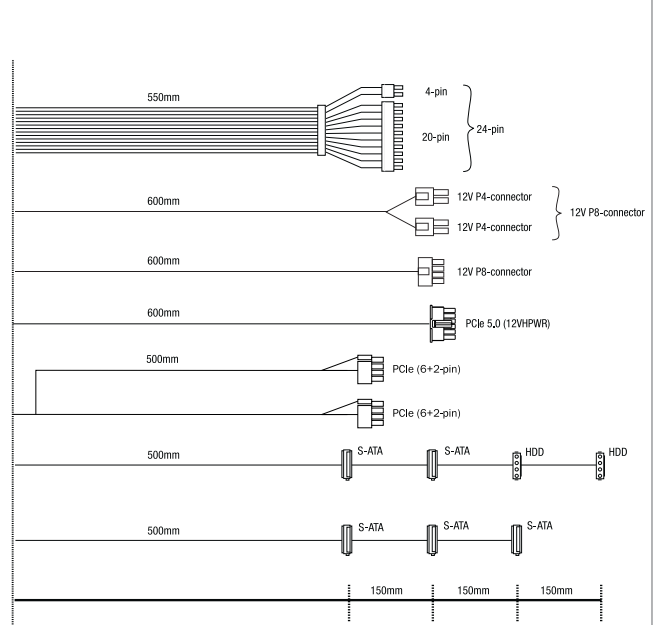
EXCEPTIONAL QUIET, SUPERIOR FEATURES

Cables

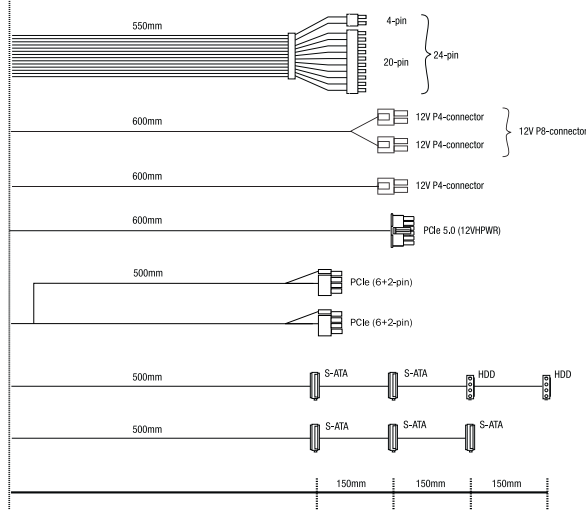
1000W / 850W



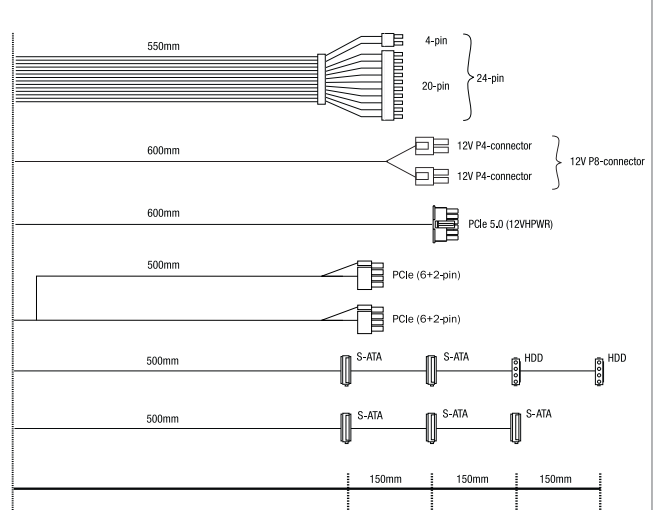
750W



650W



550W











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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

www.tuv.com
ID 000025878

UK Authorised Representative (for authorities only)
ProductIP (UK) Ltd. 8, Northumberland Av.
London WC2N 5BY

Contact

be quiet! Headquarters Service hotline: +49 40 7367 686 44
e-mail: service@bequiet.com

Listan GmbH
Wilhelm-Bergner-Straße 11c
21509 Glinde
Germany

Visit the contact section on bequiet.com
for the right regional service information.