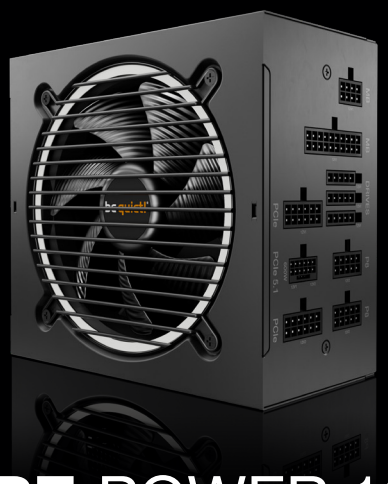
DEVELOPED IN GERMANY

be quiet!®



PURE POWER 12 M

EXCEPTIONAL QUIET, SUPERIOR FEATURES

1200W • 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 93.7%)
- 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

80 PLUS GOLD

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PURE POWER 12 M

EXCEPTIONAL QUIET, SUPERIOR FEATURES

Technical Data				
IN GENERAL	Model	1200W	1000W	850W
	Article no.	BN346	BN345	BN344
	EAN code	4260052190166	4260052189504	4260052189498
	Voltage (Vac) / Frequency (Hz)	110-240 / 50-60	100-240 / 50-60	
	Dimensions (L x W x H) (mm)	160 x 150 x 86		
	ATX 12V 3.1 / EPS 12V 2.92	– / ✓	✓ / ✓	
	Silence-optimized be quiet! fan (mm)	120		
	Noise level (dB(A)) at 10 / 20 / 50 / 100% load	10.1 / 10.6 / 10.7 / 34.3	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 (ms)	100-150		
	PFC	active		
	Certification	80 PLUS® Gold		
	Efficiency (%) at 230V, 2% / 10% / 20 % / 50% / 100% load	72.9 / 89 / 92.7 / 93.7 / 91.5	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)	✓ / <0.12	✓ / <0.1	
	OCP, OVP, UVP, SCP, OPP, OTP, SIP	✓		
	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 I 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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PURE POWER 12 M

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 3.1 / 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 (ms)	100-150		
	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 ready / Power in stand-by (W)	✔ / <0.1		
	OCP, OVP, UVP, SCP, OPP, OTP, SIP	✔		
	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 | 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 1200W	AC Input	110 - 240Vac 50 - 60Hz 15 - 7.5A					
	DC Output	3.3V	5V	12V1	12V2	-12V	5VSB
	Max. Current	22A	22A	55A	50A	0.3A	3A
				100A			
	Max. Combined Power	120W		1200W		3.6W	15W
		1200W					

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
				83.4A			
	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
				70.9A			
	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					

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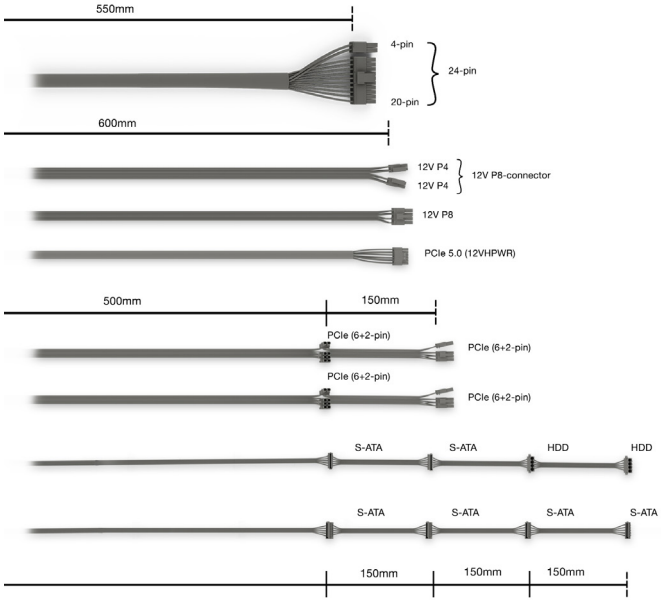
PURE POWER 12 M

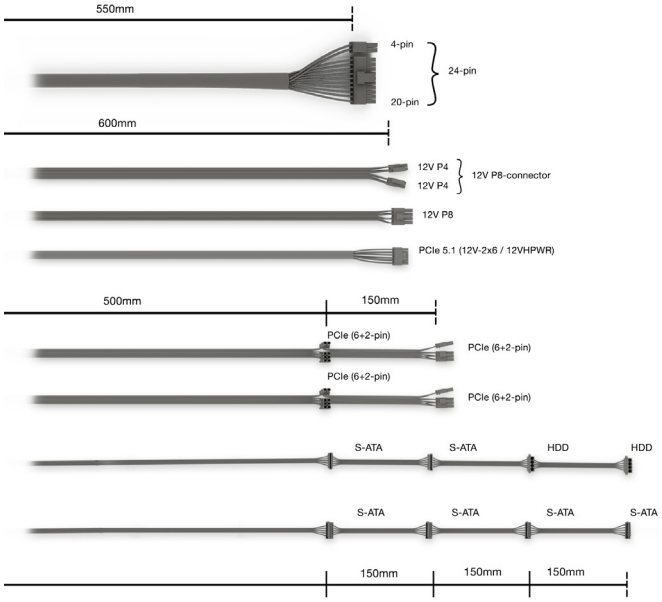
EXCEPTIONAL QUIET, SUPERIOR FEATURES

Cables

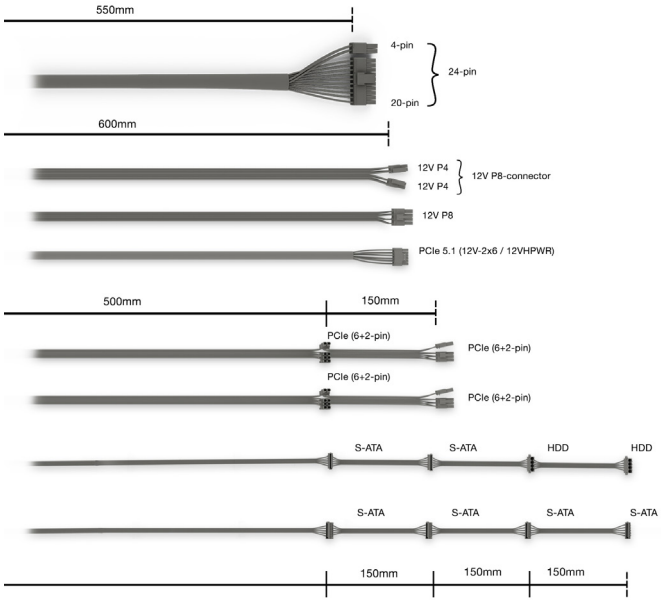
1200W



1000W



850W



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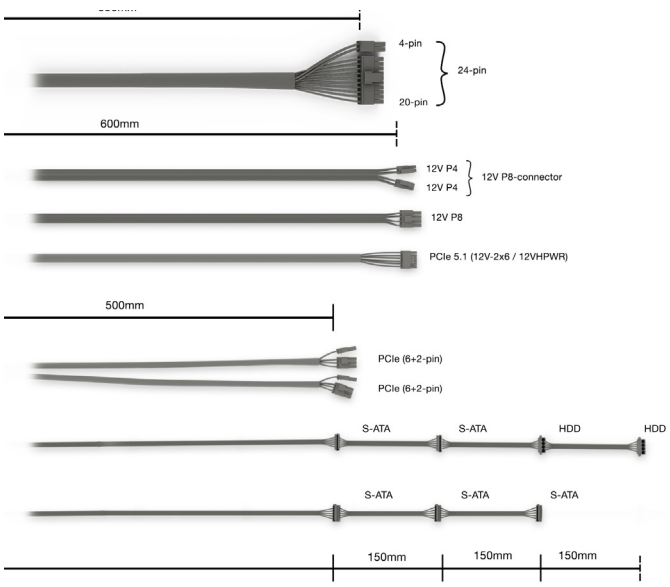
PURE POWER 12 M

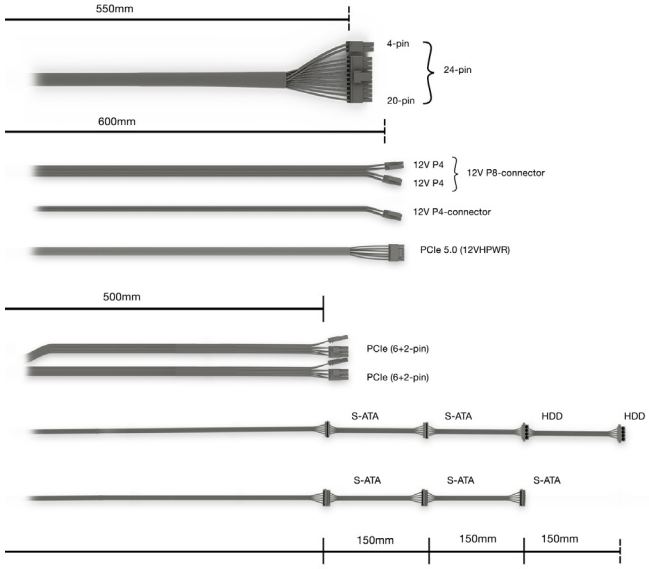
EXCEPTIONAL QUIET, SUPERIOR FEATURES

Cables

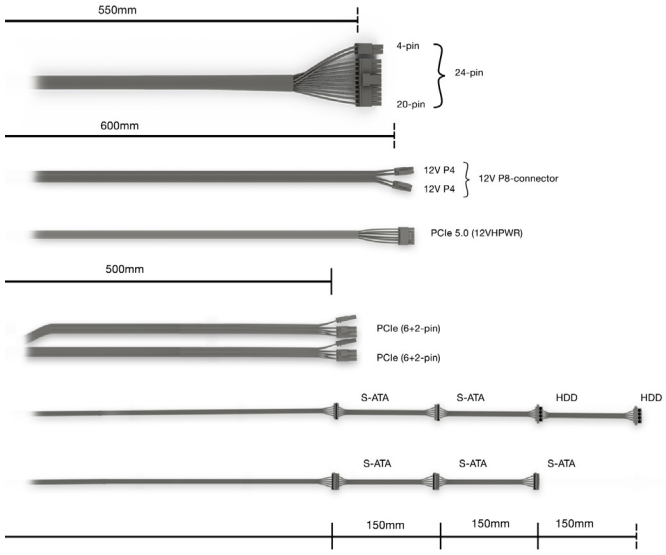
750W



650W



550W



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EXCEPTIONAL QUIET, SUPERIOR FEATURES

Logistics data

Region	Model	Article no.	EAN code
EU	Pure Power 12 M 1200W	BN346	4260052190166
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 1200W	BN513	4260052190173
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
ROW US Cord	Pure Power 12 M 1200W	BN524	4260052190876
ROW US Cord	Pure Power 12 M 1000W	BN523	4260052190869
ROW US Cord	Pure Power 12 M 850W	BN522	4260052190852
ROW US Cord	Pure Power 12 M 750W	BN521	4260052190845
ROW US Cord	Pure Power 12 M 650W	BN520	4260052190838
ROW US Cord	Pure Power 12 M 550W	BN519	4260052190821
AU	Pure Power 12 M 1200W	BN729	4260052190197
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 1200W	BN512	4260052190180
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 1200W	BN730	4260052190203
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 1200W	BN728	4260052190210
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

80 PLUS GOLD

TÜVRheinland CERTIFIED
Type Approved
Safety
Regular Production Surveillance
www.tuv.com
ID 0000025878

TÜVRheinland c us

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RoHS

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