

Appliances Company  
Panasonic Corporation  
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<http://panasonic.net/corporate/segments/ap/>

Nov 12, 2012

## **Release of MINAS-BL GP Series Brushless Motors and Amplifiers (Positioning Type)**

We would like to announce that MINAS-BL GP Series Brushless Motors (Positioning Type) will be released, following MINAS-BL GV Series (Speed Control Type) released in May 2012.

We greatly appreciate your continued support and cooperation with the sales expansion of our products.

■ Date of release: December 25, 2012

■ Product features

- Positioning function: The built-in simplified NC function allows for positioning without an upper-controller sequence. The adoption of our unique CS sensor eliminated the need of an external encoder, and enables position setting of up to four points and sine wave drive, which allows for smooth operation even at low speeds.
- Compact size and high output: Higher space factor of the stator winding achieved by adopting the MINAS technique  
Comparison with a compact AC geared motor of the same output:  
Length: Down by about 55%      Weight: About 1/3
- Speed control range: 30 to 4,000 r/min (Speed ratio: 1:133)  
Rated motor revolution speed: 3,000 r/min
- Environment resistance of the motors: IP65 (excluding the sections where the shaft passes through and the connectors at the cable ends)
- Externally-attached regenerative brake resistor: Externally attachable, enhancing the regenerative braking ability (Not suitable for continuous use)
- Obtained International standards: EC Directives, UL Standards, China Compulsory Certification (CCC: Motors only), Korean Radio Wave Act (KC mark: Amplifiers only)
- Startup support software: PANATERM for BL reduces man-hours for adjustment work.  
Waveform monitoring, parameter setting, and alarm status check, etc. can be operated and checked on a PC. The startup support software can be downloaded from our website free of charge.  
You need a separately sold PC connection cable to connect your PC to the amplifier.  
Since the PC connection cable's connector is a D-Sub connector, you also need a commercially available RS232-USB converter<sup>\*1</sup> if your PC does not have an RS232 port.

<sup>\*1</sup>: Recommended converter: I-O DATA USB-RSAQ5R or equivalent

■ Output range: 50 W, 90 W, 130 W    Voltage: 100 V, 200 V

■ Model numbers and prices: For model numbers, please see pages 2 through 4.

For prices, please contact our sales representative.

■ Order: Stocked items

■ Dimensions and specifications

Please see our website.

Website page for the MINAS-BL GP Series Brushless Motors

URL:

[http://industrial.panasonic.com/ww/i\\_e/25000/br-minas-bl-gv\\_e/br-minas-bl-gv\\_e/pdf/gv/minas-bl-gv-gp-leaflet\\_e.pdf](http://industrial.panasonic.com/ww/i_e/25000/br-minas-bl-gv_e/br-minas-bl-gv_e/pdf/gv/minas-bl-gv-gp-leaflet_e.pdf)

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## ■Position Control GP Series

### ▪Pinion shaft motors

Model No.	Size (mm)	Output (W)	Voltage (V)
MBMU5AZAB	□80	50	100
MBMU9A1AB	□90	90	
MBMU1E1AB		130	
MBMU5AZAB	□80	50	200
MBMU9A2AB	□90	90	
MBMU1E2AB		130	

### ▪Gear heads

Model No.	Size (mm)	Reduction ratio
MB8G5BV	□80	1/5
MB8G10BV		1/10
MB8G15BV		1/15
MB8G20BV		1/20
MB8G30BV		1/30
MB8G50BV		1/50
MB9G5BV	□90	1/5
MB9G10BV		1/10
MB9G15BV		1/15
MB9G20BV		1/20
MB9G30BV		1/30
MB9G50BV		1/50

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▪ Amplifiers

Model No.	Output (W)	Voltage (V)
MBEG5A1BCP	50	100
MBEG9A1BCP	90	
MBEG1E1BCP	130	
MBEG5A5BCP	50	200
MBEG9A5BCP	90	
MBEG1E5BCP	130	

▪ Amplifiers supplied with a power connection cable

Model No.	Output (W)	Voltage (V)
MBEG5A1BCPC	50	100
MBEG9A1BCPC	90	
MBEG1E1BCPC	130	
MBEG5A5BCPC	50	200
MBEG9A5BCPC	90	
MBEG1E5BCPC	130	

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## ■ Options (Same as options for already-released GV series)

Name	Specifications	Model No.
Power connector kit	For power connector	DV0P2870
Power connection cable	2 m, with 50-cm ground wire	DV0PM20077
Motor extension cable	1 m	DV0PQ1000110
	3 m	DV0PQ1000130
	5 m	DV0PQ1000150
	10 m	DV0PQ10001A1
Panel B	For digital setting	DV0P3510
Panel B connection cable	1 m	DV0P38310
	3 m	DV0P38330
	5 m	DV0P38350
I/O connector kit	For control signals	DV0PM20070
Control signal cable	2 m <sup>*1</sup>	DV0PM20076
PANATERM for BL <sup>*2</sup>	Setting software	(DV0PM20067)
PC connection cable <sup>*3</sup>	For PANATERM for BL	DV0P4140
External regenerative brake resistor	For 100 V, 50 Ω, 10 W	DV0P2890
	For 200 V, 200 Ω, 10 W	DV0PM20068
DIN rail mounting unit	—	DV0P3811
Noise filter	For single-phase type	DV0P4170
	For three-phase type	DV0PM20042
Surge absorber	For single-phase type	DV0P4190
	For three-phase type	DV0P1450
Signal noise filters	Four filters included	DV0P1460
Reactor	For single-phase type	DV0P227
		DV0P228
	For three-phase type	DV0P220

\*1: An incorrect length (20 cm) was indicated in the Motor News regarding the GV series issued on May 22, 2012. Please use the above correct information.

\*2: Please download PANATERM for BL from our website.

\*3: Since the PC connection cable's connector is a D-Sub connector, you also need a commercially available RS232-USB converter\* if your PC does not have an RS232 port.

\* Recommended converter: I-O DATA USB-RSAQ5R or equivalent

END