



Model	Rated Voltage V DC	No-load		Rated			
		Speed RPM	Current mA	Speed RPM	Torque g.cm	Current A	Power W
<b>3650BL-12</b>	12	4150	< 230	3400	50	< 0.8	11
<b>3650BL-24</b>	24	8300	< 300	6800	100	< 1.6	6.6



black : Power -

red : Power +

white : CW/CCW adjusting

yellow : FG signal output

blue : PWM speed adjusting

Motor terminations				
Terminations		I/O	Conditions	Remark
GND		IN	Ground	(black wire)Ground
Vcc		IN	DC12V $\pm$ 10%	(red wire) Power supply
FG	VOH	OUT	Min4V at 5V10K $\Omega$ pull up	(yellow wire) this is the open collector output which can detect the rotation speed using the FG output according to the phase shift.
	VOL		Min0V Max0.6V	
	FG current		Max 5mA	
	FG pulse quantity		12 pulse/round	
PWM	Input voltage	IN	0~5V	(blue wire)
	VIH		Min 2.0V	Motor running
	VIL		Max 0.6V	Motor stop
	PWM frequency		Max50KHz	Advise 15~25KHz
CW/ CCW	Input voltage	IN	0~5V	white wire
	VIH		Min 2.0V	CCW
	VIL		Max 0.6V	CW