



# 42BYG Series (1.8°(0.9°) / □42mm)



Two-phase (Four-phase)

Hybrid power stepper

## Typical Applications

Valve, 자동화장비, 의료기, 게임기, 기타장비

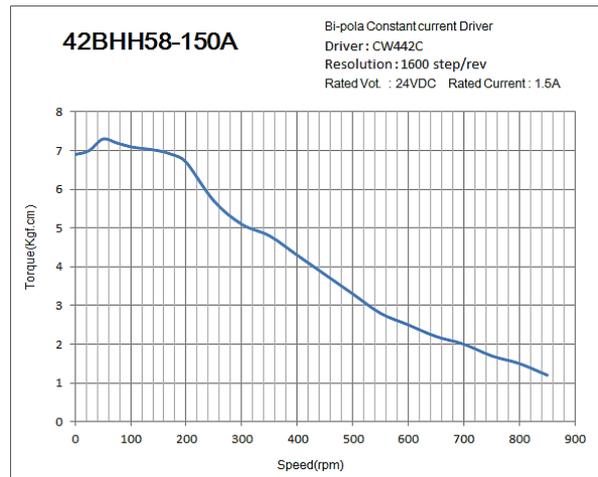
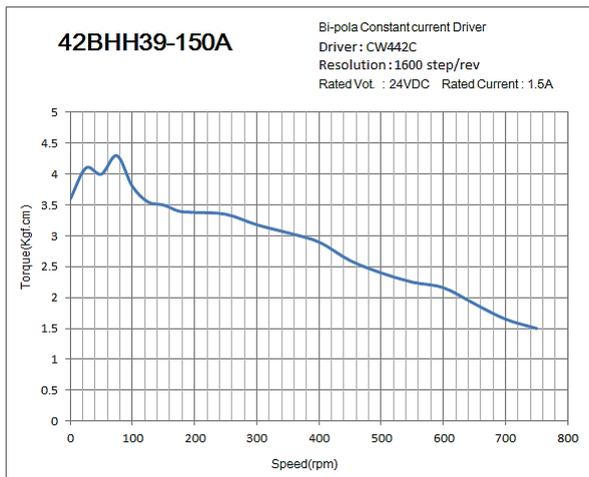
- 출력축 스피들 볼베어링 사용
- 출력축 스피들  $\varnothing 6\text{mm} \sim \varnothing 8\text{mm}$  선택 가능
- 감속기 최대 허용 토크 60Kgf.cm<sup>2</sup>
- 사용 온도 범위 : -20℃ ~ +60℃
- 고객의 요청에 의한 스피들 사양 변경 가능

## Specification (with 36PA Planetary geared + 42BYG Stepper motor)

Motor type (Lengths "L")	Reducer [36PA]		No. of wire	Step angle [Deg]	Volt [VDC]	Current pre phase [A]	Resistance per phase [ $\Omega \pm 10\%$ ]	Inductance per phase [mH $\pm 20\%$ ]	Holding torque [Kgf.cm]	Rotor inertia [g.cm]	Weights (Geared) [Kg]
	Ratio	Stage									
42BYG40H -150A (40mm) Bi-polar Type	5	1	4	1.8 (0.9)	3.15	1.5	2.10	4.7	16	57	0.5
	13	2							37		
	19								55		
	27								60		
	51	3							60		
	71								60		
	100								60		
	139								60		
42BYG58H -150A (58mm) Bi-polar Type	5	1	4	1.8 (0.9)	3.60	1.5	2.40	6.4	27	123	0.7
	13	2							60		
	19								60		
	27								60		
	51	3							60		
	71								60		
	100								60		
	139								60		

- 상기 제품은 Unipolar 방식으로도 생산이 가능합니다.
- 모든 사양은 사용자 요구에 의한 사양으로 변경 생산이 가능합니다.
- 모터의 결선도 및 옵션에 관한 내용은 각 제품의 사양서 및 카탈로그를 참조해 주시기 바랍니다.

## Dynamic torque curves



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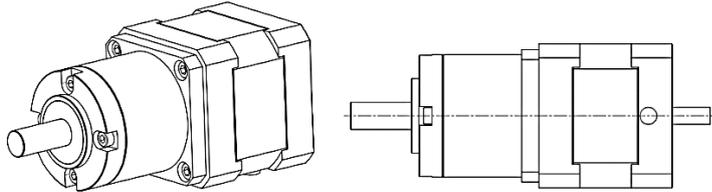
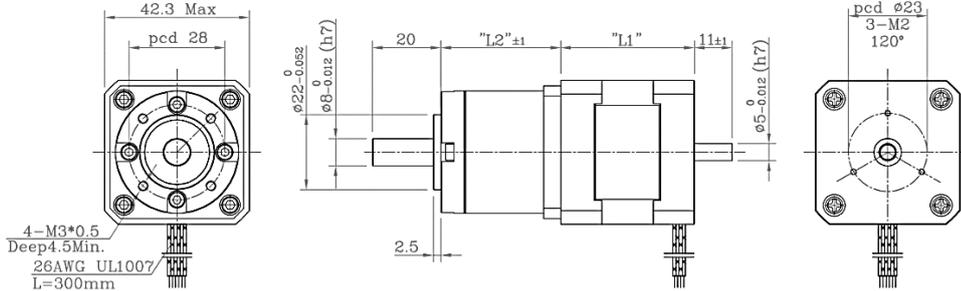


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Hybrid power stepper

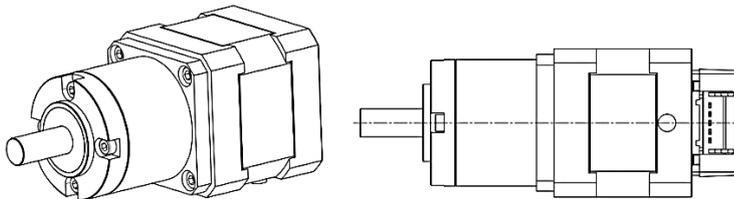
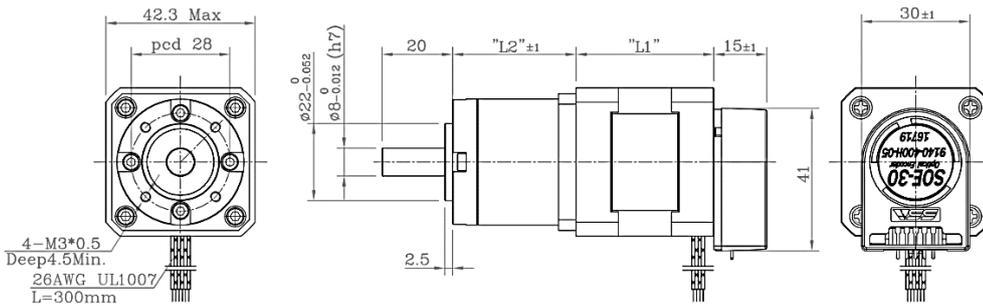
## ■ Dimensions

Unit : mm



Model	Lengths [mm]	
	"L1"	"L2"
42BYG39	39	70
42BYG58	58	89

## ■ Option (SOE32 Encoder)



### SOE30 Encoder Spec

1. Output wave : Square wave
2. Output signals : "A,B,Z" Phase
3. Output current : < 5Ma
4. Supply voltage : 5VDC
5. Output circuit : Open collector
6. Number of pulses : 400, 500
7. Terminal assignment

Signal	Gnd(1)	Z(2)	A(3)	Vcc(4)	B(5)
Color	Black	Yellow	Green	Red	White

