

## ■ Gearhead Motor Specification

### □ 57mm Frame

Type		AM57BL60L2 -PG10A	AM57BL60L2 -PG20A	AM57BL60L2 -PG32A	AM57BL60L2 -PG60A	AM57BL120L2 -PG10A	AM57BL120L2 -PG20A
Voltage	VDC	24					
Rated Power	W	60				120	
Ratio		10	20	32	60	10	20
Max. output Torque	N·m	1.45	2.9	4.64	8.7	2.9	5.8
Peak output torque	N·m	2.9	5.8	9.28	17.4	5.8	11.6
Max. load torque	N·m	24	88	88	40	24	88
Stage		1	2	2	3	1	2
Backlash	arcmin	≤10	≤15	≤15	≤20	≤10	≤15
Efficiency		96%	94%	94%	90%	96%	94%
Rated output speed	r/min	400	200	125	66	400	200
Max. output speed	r/min	500	250	156	83	500	250
Motor rotor inertia	Kg·m <sup>2</sup>	0.148x10 <sup>-4</sup>				0.279x10 <sup>-4</sup>	
Gearhead Inertia	Kg·m <sup>2</sup>	0.054x10 <sup>-4</sup>	0.075x10 <sup>-4</sup>	0.064x10 <sup>-4</sup>	0.130x10 <sup>-4</sup>	0.054x10 <sup>-4</sup>	0.075x10 <sup>-4</sup>
L1	mm	73.5	86.5	86.5	99	73.5	86.5
L2	mm	54.5	54.5	54.5	54.5	82.5	82.5
Matching Drive		BLD10 Series					

  

Type		AM57BL120L2 -PG32A	AM57BL120L2 -PG60A	AM57BL180L4 -PG10A	AM57BL180L4 -PG20A	AM57BL180L4 -PG32A	AM57BL180L4 -PG60A	
Voltage	VDC	24			48			
Rated Power	W	120			180			
Ratio		32	60	10	20	32	60	
Max. output Torque	N·m	9.28	17.4	4.3	8.6	13.76	25.8	
Peak output torque	N·m	18.56	34.8	8.6	17.2	27.52	51.6	
Max. load torque	N·m	88	40	24	88	88	40	
Stage		2	3	1	2	2	3	
Backlash	arcmin	≤15	≤20	≤10	≤15	≤15	≤20	
Efficiency		94%	90%	96%	94%	94%	90%	
Rated output speed	r/min	125	66	400	200	125	66	
Max. output speed	r/min	156	83	500	250	156	83	
Motor rotor inertia	Kg·m <sup>2</sup>	0.279x10 <sup>-4</sup>			0.456x10 <sup>-4</sup>			
Gearhead Inertia	Kg·m <sup>2</sup>	0.064x10 <sup>-4</sup>	0.130x10 <sup>-4</sup>	0.054x10 <sup>-4</sup>	0.075x10 <sup>-4</sup>	0.064x10 <sup>-4</sup>	0.130x10 <sup>-4</sup>	
L1	mm	86.5	99	73.5	86.5	86.5	99	
L2	mm	82.5	82.5	120.5	120.5	120.5	120.5	
Matching Drive		BLD10 Series						

## ■ Dimensions (Unit: mm)

