

Corp. Office  
 Plot No. PAP-A-170, Mahape MIDC,  
 Navi Mumbai - 400703  
 Tel. No.: 022 27781125  
 Mobile No.: 09890205159/09699345666  
 Email: sparkea@gmail.com / amit@sparkmotors.in  
 Website: : www.sparkmotors.in

Factory Add.: No. 12, Meishuxia Yuanshang Village, Niutang  
 Town, Wujin Dist., Jiangsu, , Changzhou City, China – 250000,  
 Tel.No.: 18569420853

## Stepper Motors



General Specifications	
Item	Specifications
Step Angle	1.8°
Step Angle Accuracy	±5% (full step, no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80°C Max.(rated current,2 phase on)
Ambient Temperature	-20°C~+50°C
Insulation Resistance	100M Ω Min. ,500VDC
Dielectric Strength	500VAC for one minute
Shaft Radial Play	0.02Max.
Shaft Axial Play	0.08Max.

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Series Model →	SM42STH47	SM57STH51	SM57STH76	SM85STH65	SM85STH80	SM85STH118	SM110STH150
Parameters ↓							
Step Angle	1.8°	1.8°	1.8°	1.8°	1.8°	1.8°	1.8°
Holding Torque (Kg-Cm)	1.6/3.17/4.4	7.2/10	20	34	46	87	220
Rated Voltage	12/ 1.2 /8.5	6.6/2.3	3.2	1.92	4.16	3.08	5.2
Phase Current (Amp.)	0.31/ 1.2 /1	1/2	2.8	4	4	4	6.5
Ph. Resistance (Ohm)	38.5/3.3 /8.5	6.6/ 0.83	1.13	0.48	1.04	0.77	0.8
Ph. Inductance (MH)	21/ 2.8 /17.4	8.2/2.2	3.6	3.35	7.4	7.95	15
Rotor Inertia (G-cm)	35/ 68 /68	275/275	480	1000	1400	2700	10900
Shaft Length (mm)	24/24/24	20.6/20.6	20.6	31.75	31.75	31.75	55.37
Shaft Diameter (mm)	5/5/5	6.35/6.35	6.35	12	12.7	12.7	19.5
Motor Frame Size (mm)	42 X 42	57 X 57	57 X 57	85 X 85	85 X 85	85 X 85	110 X 110
Motor Length (mm)	33/47/47	51	76	65	80	118	150
Leads 6-Unipolar 4-Bipolar	6/6/4	6/4	6/4	4	4	4	4
Weight	0.22/0.35	0.65/ 0.61	1	1.8	2.4	3.8	8.4

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## Stepper Driver



Model No. →	SEA5045	SEA6060	SEA860H	SEA1108
Parameters ↓				
AC power input		24V-60VAC	20VAC-80VAC	110VAC
DC power input	24V-50VDC		36VDC -110VDC	
Output current	1.3A-4.5A	2.0 A - 6.0 A	8 Amps.	0.5 - 8 Amps.
Mirco Stepping	1/2 To 1/256	1/2 To 1/256	1/2 To 1/256	1/2 To 1/256
Dimensions (mm)	118x76x33	147x97x30	158x100x59	195x118x81
Weight	300g	600gm	700gm	1.500gm
GND	DC power cathode	GND		
A+ A-	Stepping motor one winding	Stepping motor one winding	Stepping motor one winding	Stepping motor one winding
B+ B-	Stepping motor other winding	Stepping motor other winding	Stepping motor other winding	Stepping motor other winding
PUL+ PUL – OR CP+ CP-	Stepping pulse input+5V	Stepping pulse input+5V	Stepping pulse input+5V	Stepping pulse input+5V
DIR + DIR- OR CW + CW-	Stepping motor direction input, voltage level touched off, high towards, low reverse	Stepping motor direction input, voltage level touched off, high towards, low reverse	Stepping motor direction input, voltage level touched off, high towards, low reverse	Stepping motor direction input, voltage level touched off, high towards, low reverse
ENA+ ENA- OR REST + REST –	Motor Free	Motor Free	Motor Free	Motor Free
Working Environment	Temperature-15- 40 Humidity 90 ~ °C <	Temperature-15-40 Humidity 90 ~ °C <	Temperature-15-40 Humidity 90 ~ °C <	Temperature-15-40 Humidity 90 ~ °C <