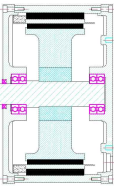


**PMSG** ISO9001:2008 , ISO14001:2004

CE CE  
EN 60034-1:2004 EN 50178:1997

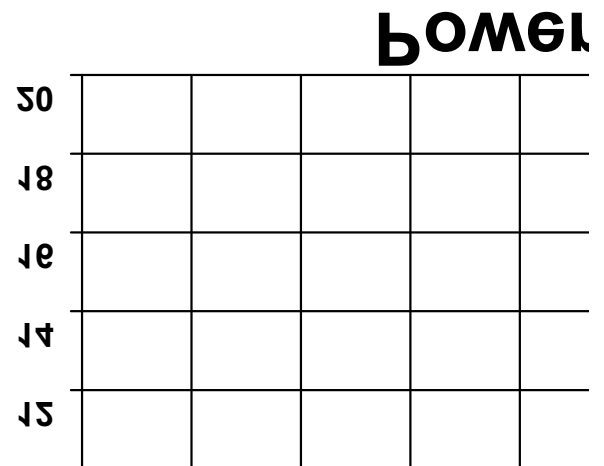
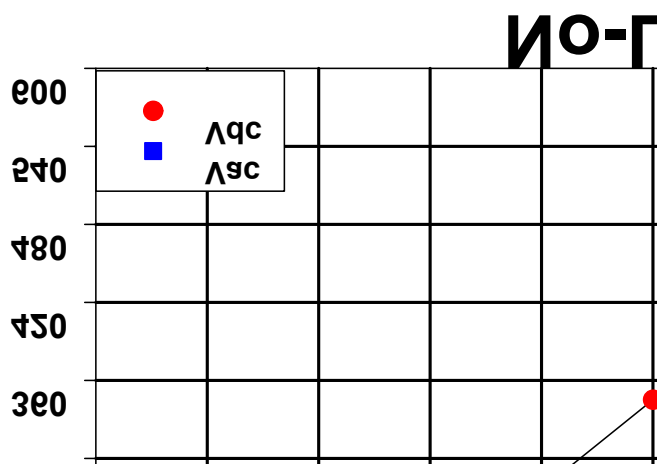


## PM Generator For Small Wind Turbine & Pico Hydro Skew, Low Cogging Torque, High Efficiency...

**Model : SWEG12K-AC120-I**

	Symbol	units	
Output power	P <sub>o</sub>	kW	12
Rated speed	ω	rpm	120
Output Voltage	E	V	3phase, 380(Line-Line)
Max. Efficiency	η	%	94
Rotor			Permanent magnet
Number of Pole	-	-	30
Speed Constant	K <sub>E</sub>	Vdc/rpm	4.6
Resistance at 20 °C(Line-Line)	R <sub>T</sub>	Ω	1.79
Inductance ( Line-Line)	L	mH	24.9
Rotor Inertia	J	Kg-m <sup>2</sup>	1.47
Maximum Temperature	C <sub>Max</sub>	°C	150
Winding			Wye
Starting Torque		Nm	< 10
Shaft Play-Axial		mm	< 0.2
Gen. Weight	W <sub>g</sub>	Kg	210

**Note: Shaft-Stainless Steel, Al-Housing, Bearing- NSK or NTN**

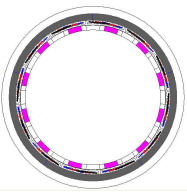


**SEOLTECH CO.,LTD.**

100-186 Calsan-Dong, Dalseo-Ku, Daegu Korea 704-900

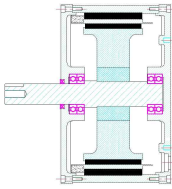
Tel : 82.53.580.7400 Fax : 82.53.580.7499

E-mail: [rosa@seoltech.com](mailto:rosa@seoltech.com) & [skywindearth@seoltech.com](mailto:skywindearth@seoltech.com)



# PMSG

ISO9001:2008 , ISO14001:2004



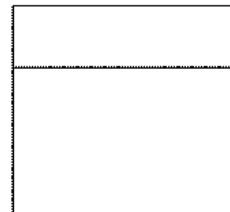
NO.	Revision	Date	CHK	APP

DIMENSIONS ARE IN INCHES					TOLERANCES		FINISH		DATE	
NO.	DESCRIPTION	QTY	UNIT	FINISH	FINISH	FINISH	DATE	DATE	DATE	DATE
1	Outer Rotor	1	PCBMM	ACIC	ACIC	ACIC				
2	Inner Rotor	1	PCBMM	ACIC	ACIC	ACIC				
3	Stator	1	PCBMM	ACIC	ACIC	ACIC				
4	End Bracket	2	PCBMM	ACIC	ACIC	ACIC				
5	Terminal Box	1	PCBMM	ACIC	ACIC	ACIC				
6	Mounting Base	1	PCBMM	ACIC	ACIC	ACIC				
7	Capacitor	1	PCBMM	ACIC	ACIC	ACIC				
8	Terminal	1	PCBMM	ACIC	ACIC	ACIC				
9	Winding	1	PCBMM	ACIC	ACIC	ACIC				
10	Frame	1	PCBMM	ACIC	ACIC	ACIC				
11	Capacitor	1	PCBMM	ACIC	ACIC	ACIC				
12	Terminal	1	PCBMM	ACIC	ACIC	ACIC				
13	Winding	1	PCBMM	ACIC	ACIC	ACIC				
14	Frame	1	PCBMM	ACIC	ACIC	ACIC				
15	Capacitor	1	PCBMM	ACIC	ACIC	ACIC				
16	Terminal	1	PCBMM	ACIC	ACIC	ACIC				
17	Winding	1	PCBMM	ACIC	ACIC	ACIC				
18	Frame	1	PCBMM	ACIC	ACIC	ACIC				
19	Capacitor	1	PCBMM	ACIC	ACIC	ACIC				
20	Terminal	1	PCBMM	ACIC	ACIC	ACIC				
21	Winding	1	PCBMM	ACIC	ACIC	ACIC				
22	Frame	1	PCBMM	ACIC	ACIC	ACIC				
23	Capacitor	1	PCBMM	ACIC	ACIC	ACIC				
24	Terminal	1	PCBMM	ACIC	ACIC	ACIC				
25	Winding	1	PCBMM	ACIC	ACIC	ACIC				
26	Frame	1	PCBMM	ACIC	ACIC	ACIC				
27	Capacitor	1	PCBMM	ACIC	ACIC	ACIC				
28	Terminal	1	PCBMM	ACIC	ACIC	ACIC				
29	Winding	1	PCBMM	ACIC	ACIC	ACIC				
30	Frame	1	PCBMM	ACIC	ACIC	ACIC				
31	Capacitor	1	PCBMM	ACIC	ACIC	ACIC				
32	Terminal	1	PCBMM	ACIC	ACIC	ACIC				
33	Winding	1	PCBMM	ACIC	ACIC	ACIC				
34	Frame	1	PCBMM	ACIC	ACIC	ACIC				
35	Capacitor	1	PCBMM	ACIC	ACIC	ACIC				
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43	Capacitor	1	PCBMM	ACIC	ACIC	ACIC				
44	Terminal	1	PCBMM	ACIC	ACIC	ACIC				
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48	Terminal	1	PCBMM	ACIC	ACIC	ACIC				
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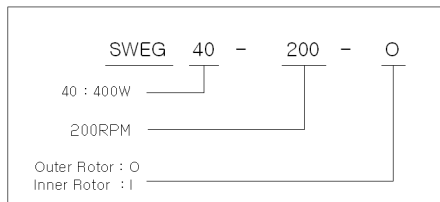
### Checklist Category-

1. Dimension and Tolerances
2. Output power, Voltage, Rpm
3. Insulation Resistance Examination
4. Starting Torque
5. Output wire 4SQ X 3C (red, white, black)



**GEN. SERIAL NO. : ST10**

### Ordering Information



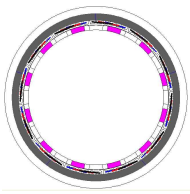
**SEOLTECH CO.,LTD.**

**100-186 Calsan-Dong, Dalseo-Ku, Daegu Korea 704-900**

**Tel : 82.53.580.7400 Fax : 82.53.580.7499**

**E-mail: [rosa@seoltech.com](mailto:rosa@seoltech.com) & [skywindearth@seoltech.com](mailto:skywindearth@seoltech.com)**

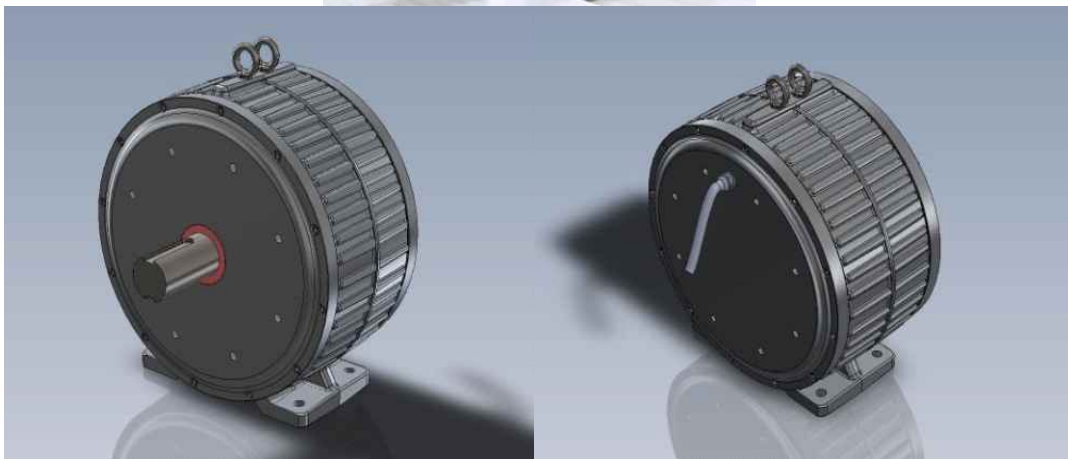
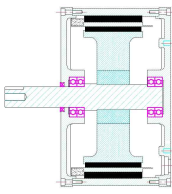




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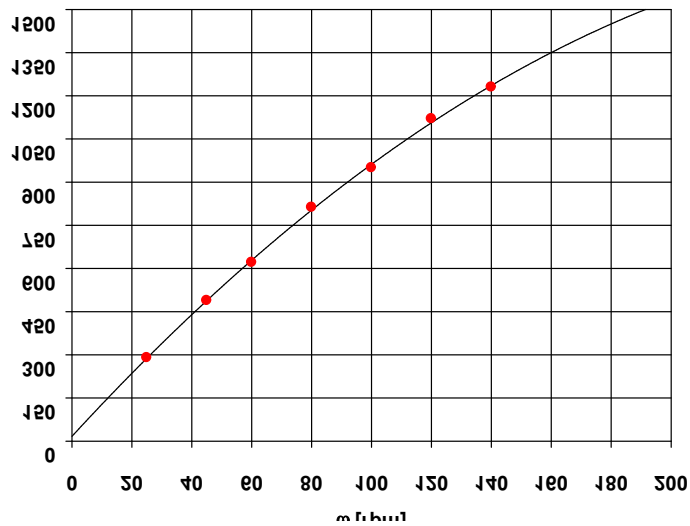
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CE CE  
EN 60034-1:2004 EN 50178:1997



Note: Frame type, Housing Material: Al;  
**Warranty: 5 yrs**

Torque vs. rpm



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