



# ST

## 系列单相交流同步发电机 SERIES SINGLE-PHASE A.C SYNCHRONOUS GENERATOR

本系列单相交流同步发电机主要是作为小型船舶的照明及城镇、乡村家庭日用电器的电源。

发电机为防滴式，凸极旋转磁场自激恒压型式。内部采用优质电磁材料和电工材料，定子绝缘E（或B）级，转子绝缘为B级。发电机外形优雅大方，结构坚固耐用，维护方便。安装尺寸采用国际电工协会IEC标准。如采用B型端盖，也可适应澳大利亚和欧美等地区配套要求。

发电机采用谐波励磁恒压和自动电压控制励磁恒压两种励磁系统，具有最佳的动能特性，使用方便可靠，经久耐用。

发电机的电压为230伏或115伏（根据需要也可制成240伏或120伏）频率50赫或60赫，工作方式为连续运行。

发电机与原动机直接联结或用三角皮带联接，当原动机转速变化为5%时，无论频率50赫或60赫，电压230伏或115伏，负载从0~100%的任一工作状态下，都能得到满意的恒压性能。

The ST series generators are mainly designed to serve as power generating unit of small capacity which supply electricity for lighting purpose in ships as well as for household electric devices used in towns or villages.

The construction of the generators is of drip-proof, salient pole rotating field self-excitation and constant voltage type. The alternator inside is used with high quality electric magnetic and electrical materials. Stator insulation is of Class E (or B), rotor insulation is of Class B. These generators are excellent in appearance, they are consolidate in construction and easy to maintain. Dimensions are adopted IEC standard, they are suitable for Australia, Europe, America and other countries if the end covers are model B.

The alternators are of harmonic wave self-excitation constant voltage system and automatic voltage control excitation constant voltage system, both of them have excellent dynamic characteristic performance, convenient and reliable in operation.

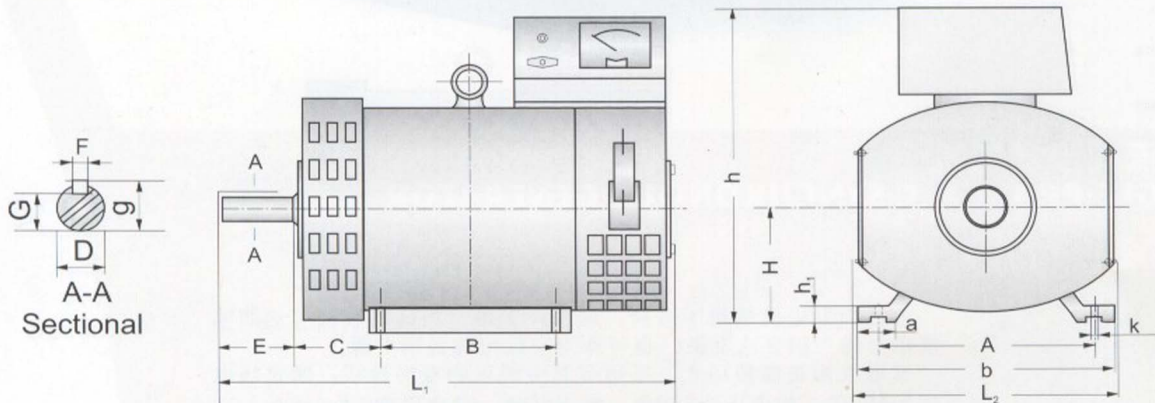
The voltage of the alternator is 230V or 115V (if necessary it can be 240V or 120V), the frequency is 50Hz or 60Hz its operation mode is of continuous duty.

The alternator can be coupled with a prime mover directly or through a V-belt. with 5% change of speed the prime mover under load variation of 0~100% at a voltage of 230V or 115V 50Hz or 60Hz to get a satisfactory constant-voltage performance.

## 技术数据 TECHNICAL DATA

型号 Model		ST-2	ST-3	ST-5	ST-7.5	ST-10	ST-12	ST-15	ST-20
功率 Output (KW)		2	3	5	7.5	10	12	15	20
电流 Current(A)	串联 Series connection	8.7	13	21.7	32.6	43.5	52.2	65.2	87
	并联 Parallel connection	17.4	26	43.5	65.2	87	104.4	130.4	174
电压 Voltage(V)	串联 Series connection	230							
	并联 Parallel connection	115							
功率因数 Power factor (cosφ)		1.0							
极数 Pole number		4							
转速 Speed (r.p.m)		1500							

## 外形和安装尺寸 OVERALL AND MOUNTING DIMENSIONS



型号 Model	ST-2kW	ST-3kW	ST-5kW	ST-7.5kW	ST-10kW	ST-12kW	ST-15kW	ST-20kW	
功率 Output (kW)	2	3	5	7.5	10	12	15	20	
安装尺寸 Installing dimensions	A	216	216	254	254	279	279	318	318
	B	178	178	254	254	203	203	228	228
	C	89	89	108	108	121	121	133	133
	D	∅32	∅32	∅38	∅38	∅42	∅42	∅48	∅48
	E	80	80	80	80	110	110	110	110
	F	10	10	10	10	12	12	14	14
	G	27	27	33	33	37	37	42.5	42.5
	H	132	132	160	160	180	180	200	200
	K	12	12	15	15	15	15	19	19
	外形尺寸 External dimensions	a	34	34	50	50	60	60	60
b		250	250	310	310	339	339	378	378
h1		18	18	25	25	25	25	30	30
h		385	385	440	440	480	480	540	540
L1		480	480	580	580	610	610	660	660
L2		270	270	325	325	365	365	400	400
重量 Weight (kg)	65	70	120	130	140	155	192	202	