

ALTERNATOR

SMF180 Range

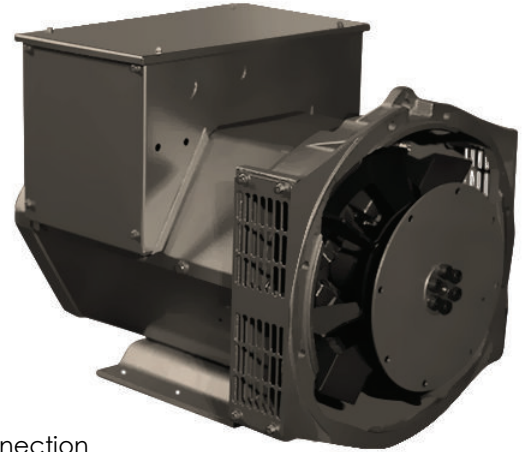
_ Rev.G _

APPLICATION AND STANDARDS

Widly used for homes, small shops and offices as a prime power supply or backup
Comply with standards of IEC60034,NEMA MG1-22,ISO8528,CSA C22.2-100, VDE 0530, GB755

ELECTRICAL FEATURES

The high efficiency semiconductors of the AVR ensure positive build-up from initial low levels of residual voltage.
2/3 winding pitch, effective control of harmonics.
12 leads, achieve a variety of voltage output
High efficiency and strong motor start ability
Be capable of running at overload up to 10% for 1 hour every 12 hours.
The "ARAP" - Auxiliary Regulation Adopted Principle is optional
Variety of excitation and voltage regulation system to meet different loads.



MECHANICAL FEATURES

Be protected to IP23, and IP44 is optional
Sealed for life bearings
Both single bearing and double bearing configurations are available
Steel sheet terminal box, which provides enough space for customer's reconnection
The rotor is dynamically balanced according to ISO 1940. A half-key balanced for double bearings.

INSULATION AND IMPREGNATION

H class insulation
The VPI (Vacuum Pressure Impregnation) equipped to ensure the electrical insulation and mechanical strength.
The "Anti-Harsh" winding is optional to meet the needs of harsh environment

COMMON DATA

INSULATION	ALTITUDE	OVERSPEED	PROTECTION	LEADS	PITCH	AVR	VOLTAGE REGULATION	WAVEFORM DISTORTION	TIF	THF
H/H	<=1000m	2250 rpm	IP23	12	2/3	SX460	± 1%	<1.5% NO LOAD	<50	<2%

RATING TABLE

H CLASS	50Hz/1500RPM/PF 0.8											60Hz/1800RPM/PF 0.8											
	125°C/40°C PRIME POWER										163°C/27°C Standby	Effi.	125°C/40°C PRIME POWER										163°C/27°C Standby
SERIES STAR	380	400	415	440	400	400	416	440	460	480	480	480											
PARALLEL STAR	190	200	208	220	200	200	208	220	230	240	240	240											
SERIES DELTA	220	230	240	254	230	230	240	254	266	277	277	277											
RATING	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	%	
SMF180B	18.8	15.0	18.8	15.0	18.8	15.0	15.0	12.0	23.3	16.3	84.3	21.9	17.5	23.0	18.4	23.0	18.4	23.0	18.4	23.0	18.4	23.0	85.0
SMF180C	22.5	18.0	22.5	18.0	22.5	18.0	17.5	14.0	24.4	19.5	84.3	27.5	22.0	28.8	23.0	28.8	23.0	30.0	24.0	32.6	26.0	85.2	
SMF180DS	25.0	20.0	25.0	20.0	25.0	20.0	20.3	16.2	27.0	21.6	85.9	30.0	24.0	31.3	25.0	31.3	25.0	31.3	25.0	31.3	25.0	85.7	
SMF180D	27.5	22.0	27.5	22.0	27.5	22.0	22.5	18.0	30.0	24.0	85.9	32.5	26.0	34.4	27.5	34.4	27.5	35.0	28.0	38.8	31.0	86.7	
SMF180E	32.0	25.6	32.0	25.6	32.0	25.6	27.5	22.0	33.0	26.4	86.4	35.0	28.0	37.5	30.0	37.5	30.0	37.5	30.0	40.0	32.0	87.9	
SMF180F	37.5	30.0	37.5	30.0	37.5	30.0	32.5	26.0	40.0	32.0	87.0	44.3	35.4	46.8	37.4	46.8	37.4	46.8	37.4	50.0	40.0	88.0	
SMF180G	40.0	32.0	42.5	34.0	40.0	32.0	35.0	28.0	45.0	36.0	87.2	47.5	38.0	50.0	40.0	50.0	40.0	50.0	40.0	53.5	42.8	88.6	

