



### KA-544 series three-phase synchronous brushless generator

Model	Rated Freq, Speed	50Hz 1500r/min				60Hz 1800r/min				
	Insulation Class	Class H/Temp.(125°C)								
Model	Astro-Series(V)	380	400	415	440	416	440	450	460	480
	Astro-Parallel(V)	190	200	208	220	208	220	225	230	240
	Triangle Series (V)	220	230	240	254	240	254	260	266	277
KA-544C	Rated Capacity(KVA)	450	450	450	450	525	550	566	581	594
	Rated Output(KW)	360	360	360	360	420	440	452	465	475
	Efficiency(%)	93.8	94.1	94.3	94.6	93.7	93.9	94	94	94.2
	Input Power(KW)	384	383	382	381	448	469	482	494	504
KA-544D	Rated Capacity(KVA)	500	500	500	500	575	594	610	625	644
	Rated Output(KW)	400	400	400	400	460	475	488	500	515
	Efficiency(%)	94.1	94.4	94.6	94.8	94	94.3	94.4	94.4	94.6
	Input Power(KW)	425	424	423	422	489	504	517	530	544
KA-544E	Rated Capacity(KVA)	600	600	600	600	681	713	722	731	750
	Rated Output(KW)	480	480	480	480	545	570	578	585	600
	Efficiency(%)	94.5	94.8	94.9	95.1	94.4	94.6	94.7	94.8	94.9
	Input Power(KW)	508	507	506	505	577	603	610	617	632
KA-544FS	Rated Capacity(KVA)	625	625	625	613	700	725	738	750	775
	Rated Output(KW)	500	500	500	490	560	580	590	600	620
	Efficiency(%)	94.5	94.8	94.9	95.1	94.5	94.7	94.8	94.9	95
	Input Power(KW)	529	527	527	515	593	612	622	632	653
KA-544F	Rated Capacity(KVA)	670	670	670	670	738	775	788	800	825
	Rated Output(KW)	536	536	536	520	590	620	630	640	660
	Efficiency(%)	94.6	94.9	95	95.3	94.6	94.8	94.9	94.9	95.1
	Input Power(KW)	567	565	564	546	624	654	664	674	694

### Product information :

KA Series three-phase synchronous brushless generators, are our company new products, which are basis on the internationally advanced technology. The products draw on the world's largest electrical machinery manufacturers' successful experience of using a number of their own innovative technology, such as insulation, ventilation, base structure, materials and surface treatment, etc., optimizing the design. Therefore, generator power density, efficiency, center high dimensions, as well as electrical, mechanical properties, etc., are up to the world advanced level.

the generators meet the requirements of JB/T10747-2007, and the relevant section of other international standards, such as International Electrotechnical Society IEC60034-22: 1996 "Reciprocating internal combustion engine driven alternator", GB755 Chinese rotary motor general technical conditions and BC5000 UK and North America NEMA MG1-22 standard.

### Products character:

1. Optional permanent magnet generator system can provide a constant excitation in any condition.
2. Advanced automatic voltage regulator system can guarantee the genrator work normally even in the worst conditions.
3. Reorganization the twelve terminal block wiring to fit the different voltage requirements.
4. Standard 2 / 3 pitch windings curbed excessive midline current make it easily to operate with other generators in parallel.
5. Unique overall design of salient-pole rotating magnetic field, taking into account the advantages of separation of salient-pole and hidden structure, and also improved the thermal conditions and the winding coil increased mechanical strength.
6. Easy installation, convenient maintenance, with easily operated terminal, rotating diodes and the bolt axis.
7. Both of the single and full pivot type structures, in compliance with all the leading diesel engine land assembly interface standards.
8. Adopted a completely continuous damper winding and the 2 / 3 pitch windings effectively inhibit the output voltage waveform distortion and greatly reduce telephone harmonic factor and telephone interference factor.

### Electrical performance:

voltage sinusoidal waveform distortion rate:  $\leq 5\%$ ,  
telephone harmonic factor (THF) :  $\leq 2\%$ ,  
telephone interference factor (TIF) :  $\leq 50$

### Note:

1. Under the following conditions, the generator could run continuously at the rated voltage: Ambient temperature  $< 40^{\circ}\text{C}$ , altitude  $< 1000\text{m}$ , relative air humidity  $< 90\%$ .
2. According to the user's need, we also can make other voltage range.
3. When ordering products model for further information, please click here to find our product model definition table.



**Koten Power** ,reserves the right to modify the characteristics of its product at any time in order to incorporate the latest technological developments. The information contained in this document may therefore be changed without notice. For more technical data.