



### KA-274 series three-phase synchronous brushless generator

Model	Rated Speed	50Hz 1500r/min				60Hz 1800r/min				
	Insulation Class	Class H/Temp.(125℃)				Class H/Temp.(115℃)				
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-274C	Rated Capacity(KVA)	100	100	100	92.5	113	118	118	118	125
	Rated Output(KW)	80	80	80	74	90	94	94	94	100
	Efficiency(%)	89.8	90.4	90.7	91.4	90	90.4	90.7	90.9	91
	Input Power(KW)	89.1	88.5	88.2	81	100	104	104	103	110
KA-274D	Rated Capacity(KVA)	114	114	114	109	131	138	118	118	125
	Rated Output(KW)	91	91	91	87	105	110	110	110	117
	Efficiency(%)	90.3	90.8	91	91.6	90.4	90.7	90.9	91.1	91.2
	Input Power(KW)	101	100	100	95.2	110	121	121	121	128
KA-274E	Rated Capacity(KVA)	140	140	140	130	160	168	168	168	179
	Rated Output(KW)	112	112	112	104	128	134	134	134	134
	Efficiency(%)	91.3	91.7	92	92.5	91.4	91.7	91.9	92	92.1
	Input Power(KW)	123	122	122	112	140	146	146	146	155
KA-274F	Rated Capacity(KVA)	160	160	160	150	181	190	190	190	206
	Rated Output(KW)	128	128	128	120	145	152	152	152	165
	Efficiency(%)	91.9	92.3	92.5	93	92	92.3	92.5	92.6	92.6
	Input Power(KW)	139	139	138	129	158	165	164	164	178
KA-274G	Rated Capacity(KVA)	175	175	175	171	200	213	213	213	225
	Rated Output(KW)	140	140	140	137	160	170	170	170	180
	Efficiency(%)	92.2	92.5	92.7	93	92.2	92.4	92.6	92.7	92.8
	Input Power(KW)	152	151	151	147	174	184	184	183	194

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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-274H	Rated Capacity(KVA)	200	200	200	190	238	245	245	245	255
	Rated Output(KW)	160	160	160	152	190	196	196	196	204
	Efficiency(%)	93	93.3	95.3	93.8	92.9	93.2	93.4	93.5	93.6
	Input Power(KW)	172	171	171	162	205	210	210	210	218
KA-274K	Rated Capacity(KVA)	250	250	250	241	285	291	291	291	300
	Rated Output(KW)	200	200	200	193	228	233	233	233	240
	Efficiency(%)	92.8	93.1	93.3	93.5	93	93.2	93.3	93.4	93.5
	Input Power(KW)	216	215	214	206	244	249	249	249	256

#### 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 auxiliary winding or phase-compound excitation system can provide the ability of bearing short-circuit current
2. Optional permanent magnet generator system can provide a constant excitation in any condition.
3. Advanced automatic voltage regulator system can guarantee the generator work normally even in the worst conditions.
4. Reorganization the first twelve terminal block wiring to fit the different voltage requirements.
5. Standard 2 / 3 pitch windings curbed excessive midline current, making it very easily to operate with other generators in parallel.
6. Unique overall design of salient-pole rotating magnetic field, taking into account the advantages of separation of salient-pole and hidden structure, and improved the thermal conditions and the winding coil increased mechanical strength.
7. Easy installation, convenient maintenance, with easily operated terminal, rotating diodes and the bolt axis.
8. Both of the single and full pivot type structures, in compliance with all the leading diesel engine land assembly interface standards.
9. 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.*