



KA-224 series three-phase synchronous brushless generator

Model	Rated Speed	50Hz 1500r/min				60Hz 1800r/min				
	Insulation Class	Class H/Temp.(125°C)				Class H/Temp.(115°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-224C	Rated Capacity(KVA)	42.5	42.5	42.5	40	50	52.5	52.5	52.5	55
	Rated Output(KW)	34	34	34	32	40	42	42	42	44
	Efficiency(%)	86.5	87.1	87.4	88.2	86.8	87.2	87.5	87.7	87.9
	Input Power(KW)	39.3	39	38.9	36.3	46.1	48.2	48	47.9	50.1
KA-224D	Rated Capacity(KVA)	50	50	50	48	60	62.5	62.5	62.5	65
	Rated Output(KW)	40	40	40	38.4	48	50	50	50	52
	Efficiency(%)	87.8	88.2	88.5	89	87.8	88.2	88.4	88.6	88.8
	Input Power(KW)	45.6	45.4	45.2	43.1	54.7	56.7	56.6	56.4	58.6
KA-224E	Rated Capacity(KVA)	60	60	60	58	67.5	70	71.3	72.5	75
	Rated Output(KW)	48	48	48	46.4	54	56	57	58	60
	Efficiency(%)	88.1	88.6	88.9	89.5	88.5	88.9	89.1	89.2	89.4
	Input Power(KW)	54.5	54.2	54	51.8	61	63	64	65	67.1
KA-224F	Rated Capacity(KVA)	72.5	72.5	72.5	70	83.8	87.5	87.5	87.5	93.8
	Rated Output(KW)	58	58	58	56	67	70	70	70	75
	Efficiency(%)	89.6	90	90.2	90.6	89.9	90.2	90.4	90.5	90.5
	Input Power(KW)	64.7	64.4	64.3	61.8	74.6	77.6	77.5	77.3	82.9
KA-224G	Rated Capacity(KVA)	85	85	85	79	93.8	97.5	98.8	100	104
	Rated Output(KW)	68	68	68	63.2	75	78	79	80	83
	Efficiency(%)	89.9	90.2	90.4	90.8	90.4	90.6	90.7	90.8	91
	Input Power(KW)	75.6	75.4	75.2	69.6	83	86.1	87.1	88.1	91.3

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) : ≤ 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.