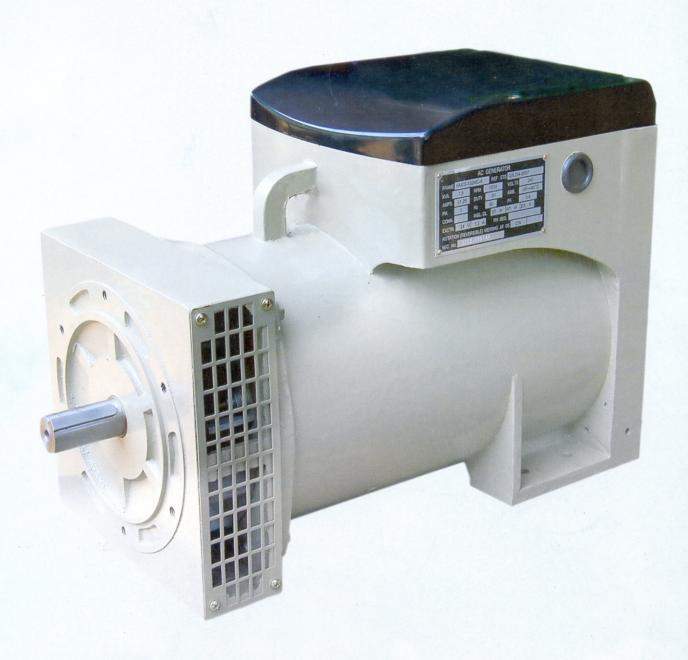
5 to 15 kVA Brushless E-Series





KIRLOSKAR ELECTRIC

E-Series AC Generators

Kirloskar Electric Company (KEC) is well known for small, medium & large size AC Generators. Being the foremost company to introduce small & medium sized AC Generators in the country, Kirloskar Electric matched development of AC Generators keeping pace with availability of prime movers. The rugged & reliable designs offered by KEC have won the confidence of the users & hence is the preferred make of large number of users. Kirloskar Electric has developed a variety of generators varying in mechanical construction & electrical system including highly customized designs. In keeping with technological development, brushless AC Generators in single bearing constructions have been supplied for a variety of diesel engines. With proficiency in evaluating different designs, Kirloskar Electric offers E-Series brushless AC Generators.

Special Features:

- Compact & aeshetically Built.
- Conforms to all leading Standards.
- Simple design, fewer parts, easy access to coupling Bolts
 & Output terminals.
- Simple for Installation & maintenance.
- Popular range of flange adaptors & flexi disc couplings.
- Wound with 2/3rd Pitch in stator to eliminate harmonics.
- Sophisticated & reliable AVR.

Construction:

Stator frame is of cast iron to provide ruggedness & houses wound stator core; together they provide excellent mechanical stability for the Machine.

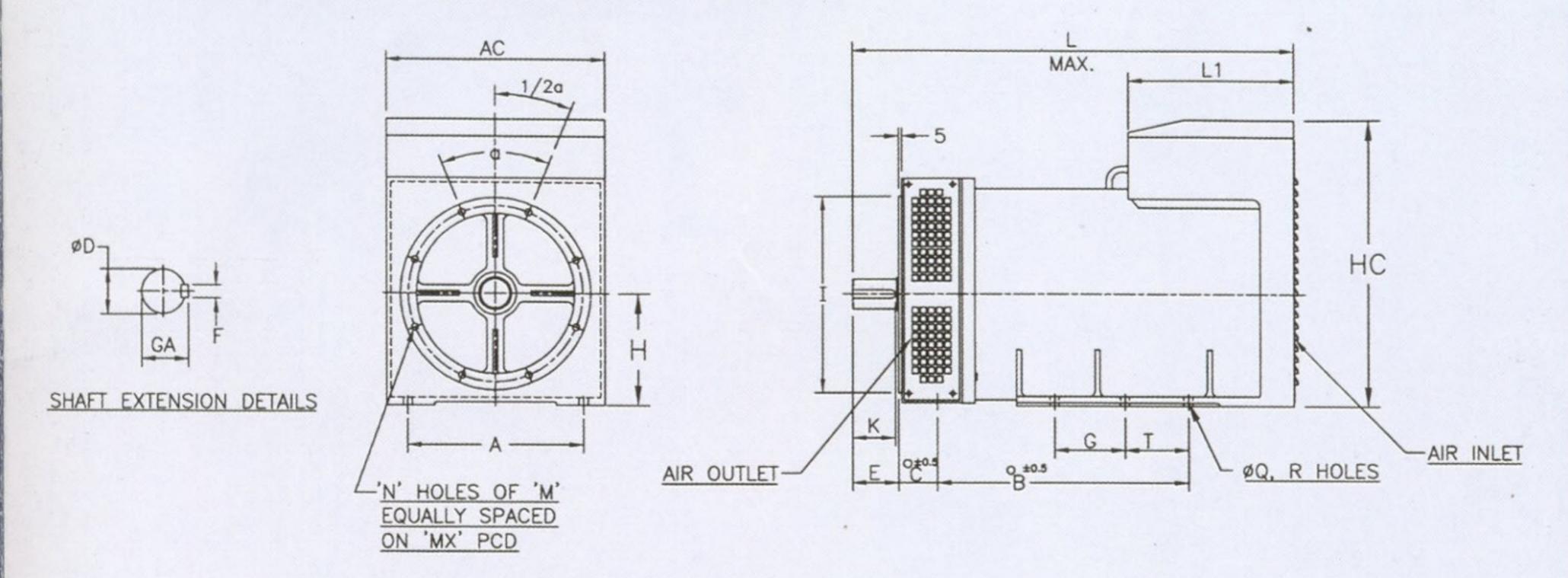
Rotor is of cruciform construction provided with damper cage. The combination of Pole profile & tooth ensures good voltage wave form. Rotors are dynamically balanced.

The amply sized terminal box is integral with the machine to arrest vibrations encountered in diesel generating sets. This box also houses the automatic voltage regulator (AVR). Single large sized terminal box cover, upon removal allows maximum access to winding termination & AVR.

Performance:

The generators are highly efficient. The voltage regulation is less than +/-1%. The temperature rise is well within Class "H" Limits. Overloads as per standards are complied with. The generators have excellent transient load handling capability.

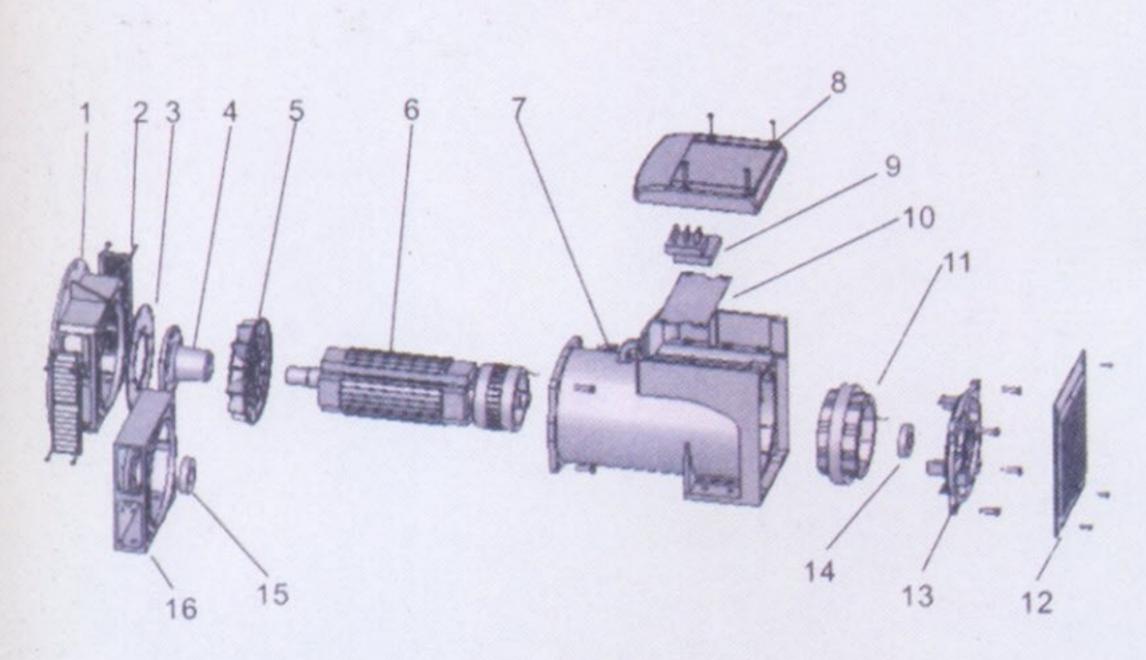
Dimensions for E-Series frames 132 to 160



Dimension Table

FRAME	А	AC	В	С	D *6	Ε	F h3	G	GA 0.2	H ^{-0.5}		I ^{j6}	K	L	L1	М	MX	a	N	Q	R	Т
4AE132/	2 200	262	372	40	472	60	10		75	170	770	4100		556	200	1110	4210	60*	C	412	6	56
4AE132/	3 206	262	427	40	ø32	60	10		33	132	3/0	ø180	56	611	290	M10	9210	60.	О	912	0	50
4AE160/	1 270	344	292	66	ø48	82	14	_	51.5	160	418	ø266.7	80	640	274	M10	ø285.8	45°	8	Ø14	6	95

Exploded view of E-Series AC Generator



- 1. Adaptor of single-bearing generator
- 2. Ventilation Grid
- 3. Coupling disc of single-bearing generator
- 4. Hub of single-bearing generator
- 5. Fan
- 6. Rotor
- 7. Stator
- 8. Terminal box cover
- 9. A V R
- 10.Chassis
- 11.Exciter stator
- 12.NDE Cover
- 13.NDE endshield
- 14. NDE bearing
- 15. Front bearing for double bearing generator
- 16.DE endshield of double bearing generator

Rating chart of AC Generators

415V, 3ph, 0.8pf (lag), 50Hz, 1500rpm

Frame	kVA	KW	% Efficiency	Nett weight - Kg		
4AE132/2	7.5	6	82.6	93		
4AE132/2	10	8	83.5	97		
4AE132/3	12.5	10	84	120		
4AE132/3	15	12	84.5	120		

240V, 1ph, 0.8pf (lag), 50 Hz, 1500rpm

Frame	kVA -	KW	% Efficiency	Nett weight - Kg		
4AE132/2	7.5	6	78	100		
4AE132/2	10	8	78.5	113		
4AE160/1	12.5	10	79.5	185		
4AE160/1	15	12	80	185		

NOTES:

- 1. Outgoing cables to be independently supported such that the weight of the cable does not come on the machine.
- 2. A minimum of one meter clear space around the machine is necessary for good ventilation.
- 3. Lifting provision provided to be used for lifting the AC generator only and not the DG set.
- 4. Dimensions are subject to alteration without notice.
- 5. Screws for fixing discs to hub shall be tightened with torque of 30kgm.
- 6. The design and manufacture of our products are subjected to constant improvement. Hence the above specifications and illustrations may vary slightly from the product supplied.



KIRLOSKAR ELECTRIC

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