



SUPERGEN 320

MOTOR GENERATOR TYPE WELDING RECTIFIER



SALIENT FEATURES

- The set consists of three-phase motor as prime mover and DC welding generator of a special patented design
- Excellent high quality welding with big savings in power bills
- Positive protection against overload and single phasing
- Mobile and mounted on wheels with rubber tyres
- Ideal for welding with cellulosic electrodes for cross country pipelines and thermal/nuclear power plants.

QUANTUM LEAP IN WELDING PRODUCTION FEATURE-WISE COMPARISON

Features you want	Brand X	Ador Breakthrough Technology
Welding with 100 mtr cable length without any current drop	Current drops	Constant current even with longer cable length
Low no load power consumption	3.2 KW	1.1 KW - less than half power consumption and energy cost
Low power consumption at 320 Amp.welding current	22.23 KW	15.5 KW Reduction by 30% in energy
Low maintenance cost	Periodic wear'n tear of brushes	Brushless' technology eliminates frequent Maintenance and down time costs
Freedom from stator failures	No protection	Built-in protection against single phasing, over voltage and under voltage
Insulation class	"B"	Class "H" - provides longer service life- more reliable
Suitable for welding in open/ dusty sites	Screen protected drip proof open type design-sucks in dirt and dust	Totally enclosed preventing entry of dirt and dust inside winding - ideal for site conditions
Ease of mobility	330 kgs in weight	Only 265 kgs in weight i.e.25% lighter-easier to move about
Availability of Spares & service	Spares subject to imports- Limited service network	Easy availability of spares Large network of authorised service centres.

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SPECIFICATIONS

Technical Specifications	Value	Unit
Input		
Input Supply Voltage, Phase, Frequency	415±+10%, 3, 50	V Ac, No., Hz
Input Power	15.5 / 20.78	Kw / Kva
Speed (synchronous)	3,000	Rpm
Starting	Star / Delta	Type
Recommended Switch Fuse Rating	Tp 40	Amps, Ac
Protection To Machine	Single Phasing, Undervoltage (340 V) / Overvoltage (480 V), Thermal	
Output		
Open Circuit Voltage	100	V Dc
Welding Current Range	35-320	A Dc
Welding Current		
@ 60% duty cycle	320	
@ 100% duty cycle	250	
General		
Welding Electrode Size	2.5, 3.15, 4.0, 5.0 And 6.3	Mm
Enclosure	Totally Enclosed	Type
Ingress Protection	Ip44 (excluding Fan Side)	Class
Cooling	Forced Air	Type
Insulation	H	Class
Dimensions (L X W X H)	1065 X 540 X 840	Mm
Weight	265	Kg

- **Warranty:** One year from the date of commissioning. ADOR WELDING LIMITED warrants that all new equipment sold from Plant/Area Offices / Authorised Distributors are free from defects in materials and workmanship and will perform in full accordance with applicable specifications.
- In view of continuous development, ADOR WELDING LIMITED reserves the right to modify/change the design and /or the specifications without any prior notice.
- Backed by dedicated customer care package.