



# SC 401 / 501 / 2 X 301

WELDING RECTIFIERS – DIESEL ENGINE DRIVEN



## Key Attributes

- SC 401 and SC 501 are unique diesel engine-driven welding generators with a brushless, high-frequency design specifically for welding, featuring constant current (CC) and maintenance-free rotor construction.
- SC 2 X 301 is a dependable diesel engine welding generator using Asynchronous/Induction type with DC Dual Chopper control for precise maintenance-free current regulation.
- It offers dual outputs, allowing simultaneous use of two welders.
- Conforms to the latest CPCB norms for noise and exhaust emission levels.
- Suitable for versatile applications, including cross-country and in-plant pipe and tube welding, heavy fabrication, and site applications.
- Specially proven with Cellulosic (6010, 7010 G & 8010G types) and other special types of electrodes.
- Provides significant savings in fuel and longer operating times before the next refuelling.



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## TECHNICAL SPECIFICATIONS

PARAMETER	SC 401	SC 501	SC 2 X 301		UNIT
CPCB COMPLIANCE	MEETS CPCB - IV COMPLIANCE FOR EXHAUST EMISSION AND NOISE WITHIN 75 DBA AT 1 MTR				-
WELDING GENERATOR	BRUSHLESS TYPE, HIGH FREQUENCY GENERATOR		SINGLE OPERATOR, DOUBLE OPERATOR, MANUAL (CC)		TYPE
WELDING CURRENT RANGE	-	-	SINGLE MODE	DOUBLE MODE	AMPS (DC)
	50 - 400 A	50 - 500 A	15-300 A	30 - 600	-
MAX. HAND WELDING CURRENT AT 40% DUTY CYCLE	-	-	2X300 A @ 29V	600 AMPS @30V	AMPS (DC)
MAX. HAND WELDING CURRENT AT 60% DUTY CYCLE	400 A @ 36 V	500 A @ 40 V	2X250 A @ 26.5V	500 AMPS @30V	AMPS (DC)
MAX. HAND WELDING CURRENT AT 100% DUTY CYCLE	310 A @ 32V	400 A @ 36V	2X200 A @ 24V	400 AMPS @36V	AMPS (DC)
OPEN CIRCUIT VOLTAGE (MAX / MIN)	100 / 45 VDC	100 / 45 VDC	92 V DC		VOLTS (DC)
GENERALLY CONFORMS TO	2635				IS
INSULATION	H				CLASS
DIAMETER OF COATED ELECTRODES	2.5, 3.15, 4, 5, 6.3				MM
AUXILIARY POWER SOURCE (BUILT IN)	-	-	WELD LOAD +AUX. LOAD	AUX. MODE W/O WELD LOAD	-
RATING 3 PHASE	10	10	8	18	KVA
RATING SINGLE PHASE	3	3	3	6	KVA
VOLTAGES (3 PHASE/1 PHASE)	415 / 240	415 / 240	415 / 230	415 / 230	VOLTS (AC)
MCB RATING	16	16	10 / 12.5	27/25	APMS
ENGINE MAKE, TYPE	SIMPSON, S2.6-G1 - CPCB IV COMPLIANT				MAKE
CYLINDER, ENGINE COOLING	3, WATER COOLED				NOS, TYPE
ENGINE RATING, SPEED, CONFORMANCE	45 BHP @ 1800 RPM, 1800 RPM, ISO 3046				BHP, RPM, ISO
STARTING (12 V)	ELECTRIC				TYPE
BATTERY CAPACITY	12 V, 65 AH				-
FUEL TANK CAPACITY	75	70	75		LTRS.
FUEL CONSUMPTION (@100% DUTY CYCLE)	4				LTRS. / HR
METERS / GAUGES / INDICATIONS	LUBE OIL PRESSURE, FUEL LEVEL INDICATION, BATTERY CHARGING CURRENT, CHARGING FAILURE WARNING LAMP, HOUR METER				TYPE / DETAILS
OPTIONAL ENGINE SAFETY PROTECTIONS	ENGINE AUTO SHUT OFF IN THE EVENT OF LOW LUBE OIL PRESSURE; HIGH CYLINDER HEAD TEMPERATURE				TYPE



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PARAMETER	SC 401	SC 501	SC 2 X 301	UNIT
DIMENSIONS AND WEIGHT (L X W X H); KG	-	-	-	-
SKID MOUNTED	1995 X 820 X 1520; 1008	1995 X 820 X 1520; 1100	1995X 820 X 1520; 1008	MM, KGS
TWO WHEEL MOUNTED	2905 X 1455 X 2100; 1148	2900 X 1455 X 1990; 1240	2905 X 1455 X 2100; 1150	MM, KGS
FOUR WHEEL MOUNTED	3435 X 1555 X 2100; 1248	3435 X 1555 X 1990; 1340	3435 X 1555 X 2100; 1250	MM, KGS

- **Warranty:** One year from the date of commissioning. ADOR WELDING LIMITED warrants that all new equipment sold from Plant/Area Offices / Authorized Distributors are free from defects in materials and workmanship and will perform in full accordance with applicable specifications.
- All engines and engine accessories are warranted by the engine or engine accessory manufacturer and are not covered by this warranty.
- ADOR is not responsible for cable wear and consequential damage resulting from cable wear due to flexing and abrasion. End user is responsible for routine inspection of cables for possible wear and to remedy the issue prior to cable failure.
- **NOTE:** Only distilled water or 50-50 mixture of distilled water and coolant are to be used for Engine radiator to ensure its proper functioning and reliable operation. Use of normal or tap water will nullify any guarantee of the Radiator.
- 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.

## ADOR WELDING LIMITED

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