



# CHAMP 400 X

400 AMP CAPACITY WELDING RECTIFIER



## Key Attributes

- Three-phase inverter-based DC Welder with high efficiency and a high-power factor.
- Enhanced reliability due to SMD technology.
- The equipment is equipped with built-in VRD to reduce the output OCV to a safe level of 6–9 V DC with the VRD ON/OFF switch.
- Suitable for heavy-duty welding applications.
- Hot Start and Arc Force adjustment available on the panel.
- Light weight, compact, and portable for easy handling.
- Protections with auto reset:
  - - Input supply voltage protections for over and under voltage.
  - - Over-temperature protection.
  - - Protection against single phasing.



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## TECHNICAL SPECIFICATIONS

PARAMETERS	VALUE	UNIT
INPUT SUPPLY VOLTAGE, PHASE, FREQUENCY	415 V +15%, -10%; 3; 50 / 60	VOLTS AC, NO., HZ
INPUT POWER @ 415V	13 @ 100% DUTY CYCLE, 19 @ 60% DUTY CYCLE, 0.2 @ NO LOAD	KVA
INPUT SUPPLY CURRENT @ 415V	18 @ 100% DUTY CYCLE, 26 @ 60% DUTY CYCLE, 0.24 @ NO LOAD	AMPS AC
EFFICIENCY	≥ 85	%
POWER FACTOR	0.93 MAX	Λ
OPEN CIRCUIT VOLTAGE @ 415V INPUT SUPPLY	70 V(+/-5V)	V DC
WELDING CURRENT RANGE	10 – 400	V DC
WELDING CURRENT (AT 40°C AND 10 MINUTE CYCLE)	310 @ 100% DUTY CYCLE, 400 @ 60% DUTY CYCLE	A DC
ARC FORCE CONTROL (MMA MODE)	0 – 100 (80A MORE CURRENT THAN SET CURRENT WHEN SET AT FULL)	-
HOT START (MMA MODE)	0 – 100 (HOT START SET % MORE THAN SET CURRENT FOR 1.5SEC INITIALLY)	-
WELDING ELECTRODE SIZES (DIAMETER)	E-6013 AND E-7018: 2.5 – 6 MM;	MM
REMOTE CONTROLLER (OPTIONAL)	PROVIDED AS OPTIONAL FOR CURRENT SETTING	10 METER
BUILT IN VRD	OCV REDUCES TO 6 V – 9 V IN MMA MODE WHEN MACHINE IS IN NO LOAD CONDITION	-
COOLING	FORCED AIR	TYPE
CLASS OF INSULATION	IP23 (S)	CLASS
DEGREE OF PROTECTION	H	DEGREE
DIMENSIONS: LENGTH X WIDTH X HEIGHT	580 X 237 X 440	MM
WEIGHT (APPROX.)	24	KG