



# 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                |