

low-hydrogen basic welding, heat-resistant steel welding electrodes and other electrodes;
 Product design, manufacturing standards: IEC60974.1:2000 AND GB15579.1-2004

II. Technical parameters

Item/Model	ZX7-315	ZX7-400	ZX7-500
Input Phase	3	3	3
Rated input voltage (V)	380	380	380
Rated input current (A)	21	25.4	32
Rated load voltage (V)	60	65	65
Rated output current (A)	315	400	500
Rated duty cycle	60%	60%	60%
Current adjustment range (A)	20-315	20-400	20-500
Cooling	Forced air-cooled	Forced air-cooled	Forced air-cooled
Insulation Class	H	H	H
Overall dimensions (mm)	370×200×330	485×260×480	515×305×505
Weight (KG)	14	25	29

III. Work Description

ZX7 series IGBT inverter welding power supply block diagram is shown in Figure 1, part of the real wire-frame, include the input rectifier filter module, IGBT inverter module, step-down transformer, output rectifier filter module and control circuit. Three-phase AC power is transformed into direct current by the input rectifier filter module, and then inverted to 20kHz through the IGBT inverter, through the high-frequency transformer falls to the required voltage, and then rectified by the output filter module into direct current for welding use.

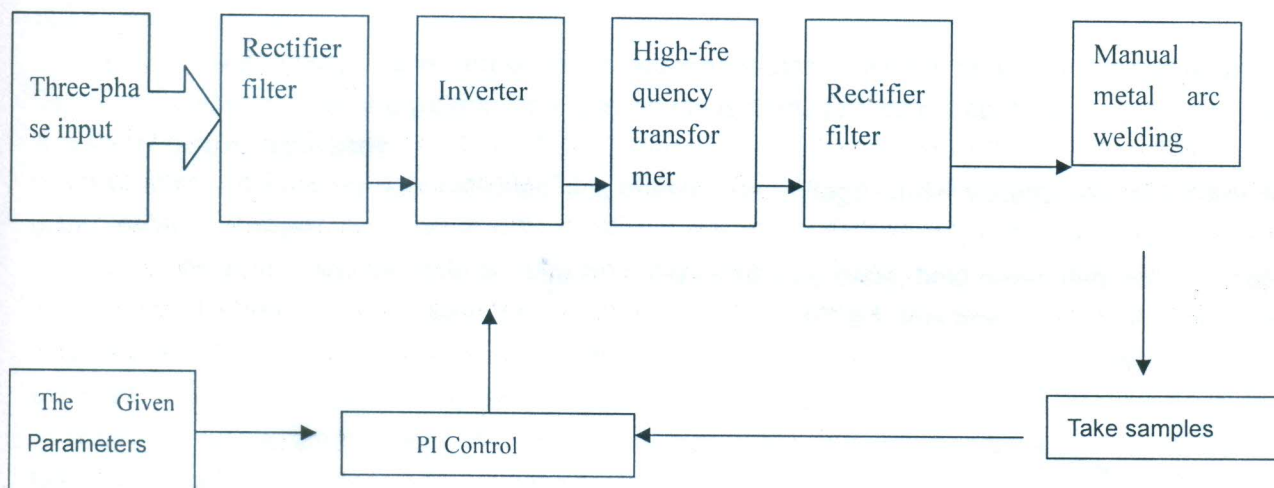


Fig1. ZX7 Series Block diagram of manual welding power supply