

Component Name	Value / Rating	Quantity	Description
<b>Transformer</b>	220V Pri / 24V Sec, 100VA	1	Main AC power source.
<b>Bridge Rectifier</b>	KBPC3510 (35A)	1	Full-wave rectifier module.
<b>Filter Capacitor</b>	4700µF / 50V (Electrolytic)	1	Main DC smoothing capacitor.
<b>Bypass Capacitor</b>	100nF (Ceramic/Film)	1	High-frequency noise filtering at input.
<b>Output Capacitor</b>	10µF / 25V-50V (Electrolytic)	2	Stability capacitor for regulators.
<b>Voltage Regulator</b>	LM338T	1	Adjustable regulator (1.2V - 30V).
<b>Voltage Regulator</b>	L7812	1	Fixed 12V regulator for fan.
<b>Potentiometer</b>	5kΩ (Linear)	1	Voltage adjustment control (RV1).
<b>Resistor</b>	220Ω (1/4W)	1	Reference resistor for LM338T.
<b>Protection Diode</b>	1N4007	2	Reverse current protection.
<b>Cooling Fan</b>	12V DC Fan	1	Active cooling connected to 7812 output.
<b>Digital Panel Meter</b>	DC 100V / 10A	1	Output voltage and current monitoring.
<b>Heatsink</b>	Aluminum	2	For LM338T and KBPC3510.
<b>Fuse &amp; Holder</b>	Glass Fuse	1	AC input safety.
<b>Switch</b>	Rocker Switch	1	AC Power control.