

07 High Frequency Invert DC Power

Product Features

- Supports 1KHz/2KHz/3KHz/4KHz/5KHz working frequency switching freely.
- Six welding control modes, including constant peak current, constant secondary current, constant voltage, constant power, constant pulse width and advanced mixed control, can meet the welding needs of materials of different shapes.
- The 7-inch high-definition touch screen has built-in oscilloscope and detector functions, which can display 8 real welding waveforms such as current, voltage, power, resistance waveform, etc.
- Supports 32 sets of parameter storage, convenient for multi-variety welding, rich I/O interfaces, supports multiple communication protocols (MODBUS, RS-232, RS-485, supports expansion of ModBus TCP/IP, EtherNet/IP, PROFINET, Devicenet, EtherCAT, etc.), convenient for external PLC automation control or robot communication protocol control.
- It supports multi-stage welding discharge, and can also set the slow rise and slow fall functions of each welding stage separately, which is helpful for welding formation and effectively solves welding spatter and ensures welding stability.
- Built-in up to 22 types of welding fault diagnosis, welding protection module, and monitoring alarm function to ensure the safety of the entire welding process.
- Built-in electrode grinding function and electrode grinding warning function can set the number of electrode welding times. After reaching the number, an alarm will be issued to remind you to grind the electrode to ensure the welding effect.



IDP-3420 / IDP-5420 High Frequency Precision Inverter DC Resistance Welding Power Supply

Technical Parameters

Model		IDP-3420	IDP-5420
Supply Voltage		220 V / 380 V (50/60Hz)	
Control Frequency		1kHz / 2kHz / 3kHz / 4kHz / 5kHz	
Maximum output current		3000A	5000A
Maximum Power		10KVA	15KVA
Control Method		Fixed pulse width/fixed primary peak/fixed secondary current/fixed secondary voltage/fixed power/mixed control	
Welding specification number		32 Group	
Welding Time	Pre-squeeze Time	0-9999ms	
	Squeeze Time	0-9999ms	
	Up slope 1 Time	0-9999cyc	
	Welding 1 Time	0-9999cyc	
	Down slope 1 Time	0-9999cyc	
	Cooldown	0-9999cyc	
	Up slope 2 Time	0-9999cyc	
	Welding 2 Time	0-9999cyc	
	Down Slope 2 Time	0-9999cyc	
	Up slope 3 Time	0-9999cyc	
	Welding 3 Time	0-9999cyc	
	Down slope 3 Time	0-9999cyc	
	Holding Time	0-9999ms	
	Rest Period	0-9999ms	
	End Time	0-9999ms	
Cycle times		0-99	
Current setting range		0.05 ~ 3.00kA	0.05-5.00KA
Current adjustment range		10A	
Current pre-check		Support	
Current/voltage/power monitoring		0.00 ~ 3kA	0.00-5KA
Communication Protocol		Standard RS-232, RS-485, optional Ethernet (TCP/IP)	
Cooling method		Air Cooling	
Transformer turns ratio		30:1/50:1	
Transformer no-load secondary voltage		10V/10V	
High utilization rate		3000A (5%)	5000A (5%)
weight		21Kg	22Kg

