

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

