

14 Automotive Control

Product Features

- Equipped with remote programmer, can realize external remote programming settings.
- Five working frequencies selectable (1KHz/2KHz/3KHz/4KHz/5KHz).
- Tree welding control modes (constant primary current, constant secondary current and constant pulse width).
- The 7-inch HD touchscreen integrates oscilloscope and detector functions, displaying up to 8 real-time welding waveforms (current, voltage, power, resistance, etc.) and corresponding data for analysis. This enables customers to monitor welding consistency/quality with intuitive debugging.
- The welding circuit monitoring function can be used to set the upper and lower limit alarms of the circuit coefficient to effectively determine whether the welding machine circuit is normal, whether the conductive copper strip is aging, broken, shunted, and other abnormal conditions.
- This machine features a pre-weld low-current check to prevent electrode cap explosions from insufficient clamp pressure during discharge welding and to detect missing or misaligned workpieces.
- More suitable for the automotive industry, the entire series is equipped with adaptive intelligent welding function as standard, which automatically adjusts the current and time according to changes in external conditions during the welding process to ensure welding quality and solve problems such as shunt welding, edge welding, non-conductive gap welding, pressure changes, inconsistent plate thickness, etc.



Power Supply Specifications

Model	IDP-620	IDP-820	IDP-1220	IDP-1620
Input Power	3 *380 V (50/60Hz)			
Control Frequency	1kHz / 2kHz / 3kHz / 4kHz / 5kHz			
Max Output (Primary)	600A(Primary)	800A(Primary)	1200A(Primary)	1600A(Primary)
Control Mode	constant primary current, constant secondary current, conduction angle control (3 options)			
Specifications qty	256			
Welding time Setting	Pre-squeeze Time	0-9999ms		
	Squeeze Time	0-9999ms		
	Up slope 1 Time	0-9999ms		
	Welding 1 Time	0-9999ms		
	Down slope 1 Time	0-9999ms		
	Cooldown	0-9999ms		
	Up slope 2 Time	0-9999ms		
	Welding 2 Time	0-9999ms		
	Down Slope 2 Time	0-9999ms		
	Up slope 3 Time	0-9999ms		
	Welding 3 Time	0-9999ms		
	Down slope 3 Time	0-9999ms		
	Holding Time	0-9999ms		
	Rest time	0-9999ms		
	End Time	0-9999ms		
	Number of cycles	0-99		
Current Setting Range	1 ~ 30kA	1 ~ 40kA	1 ~ 50kA	1 ~70kA
Current adjustment Range	10A			
Current Control Precision	≤1%			
Impedance control accuracy	1%			
Tripping function	YES			
Offline data upload	YES			
Circuit Monitor	YES			
Adaptive Function	YES			
Current Prechecking	YES			
Current Monitor	0.01 ~ 35kA	0.01 ~ 45kA	0.01 ~ 55kA	0.01 ~ 75kA
Welding Repeated Repairing	YES			
Communication	standard: RS-232、RS-485、ModBus TCP/IP customized: EtherNet/IP, ProfiNet, ProfiBus, EtherCAT, DeviceNet			
Cooling	water			

