

DS350/DS500

ROBOT WELDING POWER SOURCE

DS Series Welders: Equipped with high-performance full-digital processor for three-level soft-switching technology (up to 100 KHz). Supports ultra-low spatter welding for both MAG and CO₂, with wide current range. Excellent spatter control even at 200A. 500A pulse model: 100% duty cycle. 350A/500A models: Built-in short-arc pulse for better weld appearance. SL model (CMT): Lower spatter, more stable arc.



CRP-DS350-L



CRP-DS350-SL
CRP-DS350-SL-Q

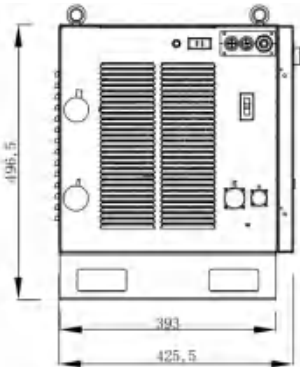
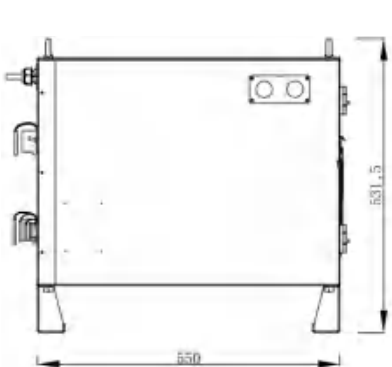


CRP-DS500-P

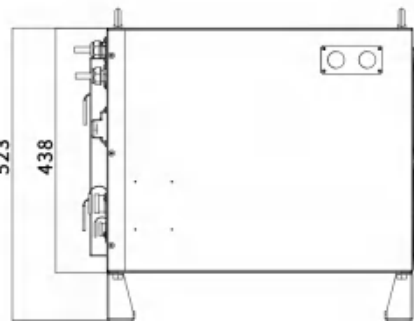
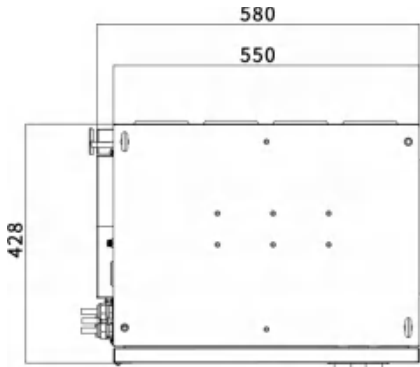
- ① MAG/CO₂ Ultra-low Spatter Welding Available
- ② Constant Penetration: Stable Current, Smooth Arc
- ③ Retractable Arc Starting: High Success Rate
- ④ Fish-scale Welding: For Thinner Plates & Appearance Parts
- ⑤ Short-arc Pulse: Beautiful Formation, High Welding Speed
- ⑥ Seam Tracking: Robot Positioning & Deviation Correction
- ⑦ Integrated Parameters: All Set via Robot Teach Pendant

- ① Lower Spatter Than Ultra-low Spatter Welders
- ② Cold Arc Process: Lower Heat Input, Minimal Deformation
- ③ Servo Motor Wire Feeding: More Stable Arc
- ④ Retractable Arc Starting: High Success Rate
- ⑤ Faster Welding Speed Than Low Spatter Welders
- ⑥ Weldable Materials: Carbon Steel, Stainless Steel, Galvanized Steel, Copper (DS350-SL-Q: Aluminum Weldable)
- ⑦ Integrated Parameters: All Set via Robot Teach Pendant

- ① MAG/CO₂ Ultra-low Spatter Welding Available
- ② Constant Penetration: Stable Current, Smooth Arc
- ③ Retractable Arc Starting: High Success Rate
- ④ Fish-scale Welding: For Thinner Plates & Appearance Parts
- ⑤ Short-arc Pulse: Beautiful Formation, High Welding Speed
- ⑥ Seam Tracking: Robot Positioning & Deviation Correction
- ⑦ Integrated Parameters: All Set via Robot Teach Pendant
- ⑧ 500A, 100% Duty Cycle



DS350-L/DS350-SL/DS350-SL-Q Installation Dimensions



DS500-P Installation Dimensions

Item	CRP-DS350-L	CRP-DS350-SL / CRP-DS350-SL-Q	CRP-DS500-P
Name	Full-Digital DC IGBT Inverter CO ₂ /MAG/MIG Multi-Function Welder	Full-Digital DC IGBT Inverter CO ₂ /MAG/MIG Multi-Function Welder	Full-Digital DC IGBT Inverter CO ₂ /MAG/MIG Multi-Function Welder
Model	CRP-DS350-L (CCC Compliant)	CRP-DS350-SL (CCC Compliant)	CRP-DS500-P (CCC Compliant)
Overall Dimensions [mm]	426×550×496 (W×L×H) (Excl. Protrusions)	426×550×496 (W×L×H) (Excl. Protrusions)	426×550×531.5 (W×L×H) (Excl. Protrusions)
Weight	~56 kg	~58 kg	~62 kg
Phase, Rated Input Voltage	3-Phase, 380V±10%, 50/60Hz Universal	3-Phase, 380V±10%, 50/60Hz Universal	3-Phase, 380V±10%, 50/60Hz Universal
Rated Input	18 KVA, 15 KW	18 KVA, 15 KW	26.5 KVA, 23 KW
Rated Output Current	30-350 A (Wire Diameter Dependent)	30-350 A (Wire Diameter Dependent)	30-500 A (Wire Diameter Dependent)
Rated Output Voltage	12-36 V (Wire Diameter Dependent)	12-36 V (Wire Diameter Dependent)	15.5-39 V (Wire Diameter Dependent)
Rated Duty Cycle	60% (10 min/cycle)	60% (10 min/cycle)	100% (10 min/cycle)
Welding Methods	CO ₂ Short-Circuit, MAG/MIG Short-Circuit, Single Pulse	CO ₂ Short-Circuit, MAG/MIG Short-Circuit, Cold Arc	CO ₂ Short-Circuit, MAG/MIG Short-Circuit, Single Pulse
Weldable Materials	Carbon Steel / Stainless Steel	Carbon Steel / Stainless Steel / Galvanized Steel / Copper (Aluminum for DS350-SL-Q)	Carbon Steel / Stainless Steel
Wire Feed Speed	1.0-18 m/min	1.0-18 m/min	1.0-18 m/min
Cables	Wire Feeder Cable: 5 m (Std., Max. 15 m Option)	Wire Feeder Cable: 5 m (Std., Max. 15 m Option)	Wire Feeder Cable: 5 m (Std., Max. 15 m Option)
	Welding Positive Cable: 5 m	Welding Positive Cable: 5 m	Welding Positive Cable: 5 m
	Welding Negative Cable: 3 m	Welding Negative Cable: 3 m	Welding Negative Cable: 3 m
Wire Feeder Control	High-Precision Grating Encoder Feedback	Servo Motor Control	High-Precision Grating Encoder Feedback
Shielding Gas Pre-Flow Time	0-10 s (Settable via Teach Pendant)	0-10 s (Settable via Teach Pendant)	0-10 s (Settable via Teach Pendant)
Shielding Gas Post-Flow Time	0-10 s (Settable via Teach Pendant)	0-10 s (Settable via Teach Pendant)	0-10 s (Settable via Teach Pendant)
Robot Interface	CAN Communication	CAN Communication	CAN Communication
Arc Monitoring Output	Voltage & Current Display on Teach Pendant	Voltage & Current Display on Teach Pendant	Voltage & Current Display on Teach Pendant
Gas Regulator Power	36V/6A (Turn Off When Not In Use)	36V/6A (Turn Off When Not In Use)	36V/6A (Turn Off When Not In Use)
Welding Voltage Setting	Synergic / Individual (Teach Pendant Selectable)	Synergic / Individual (Teach Pendant Selectable)	Synergic / Individual (Teach Pendant Selectable)
User Files	10 Files	10 Files	10 Files
Waveform Control Adjustment	Teach Pendant Setting Screen	Teach Pendant Setting Screen	Teach Pendant Setting Screen
IP Rating	IP21S	IP21S	IP21S