



Datasheet

DC Power Supply HX 900 – HX 1400



Cabinet – front view



Mains Controller MC 8 (top) and
Master Display MD 4 (bottom)

For non-reactive processes, the HX 900 – HX 1400 are highly reliable and economical power supplies. The modular construction gives customers a flexible configuration for different applications and requirements. The very fast arc handling detects important process parameters automatically and adapts to changing situations instantly. No user interaction or programming is necessary, which simplifies initial operation and conversion for different targets. Efficient water cooling ensures a long lifespan even in non-air-conditioned environments.

★ Highlights

- ★ Output power 90 kW – 140 kW
- ★ Water cooling
- ★ Magnetic valve control
- ★ Ideal for non-reactive coating processes for cathodes up to 4 meter length
- ★ Very fast elimination of oxide films
- ★ Automatic arc management (up to 40.000 arcs / sec)
- ★ Automatic power compensation up to 2.000 arcs / sec
- ★ High efficiency (95 % at nominal power)

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Variants

Type	DC-Output			Order-No.
HX 900	90 kW	800 V	180 A	14Z110
HX 1050	105 kW	800 V	210 A	14Z120
HX 1200	120 kW	800 V	240 A	14Z130
HX 1400	140 kW	800 V	280 A	14Z140

Options and Accessories - detailed Information see Datasheet "Accessories"

Type	Order-No.
Control Interfaces	
AS4 - analogue for U-, I- or P-Regulation	01Y001
AS4F - analogue for U-, I- or P-Regulation, fast Data Transfer	01Y021
AS6 - analogue for U-, I-, P-Limit Specification	01Y061
Profibus DP	01Y160
EtherCAT®	01Y170
RS232/485	01Y181
Indications	
Master Display MD 4 for up to 4 Devices in parallel Operation	50Y261
Master Display MD 8 for up to 8 Devices in parallel Operation	50Y262
Miscellaneous	
Supply Connectors on Top	04Y310
Line Voltage 3 x 400 V (default)	10Y022
Line Voltage 3 x 440 V	10Y025
Line Voltage 3 x 480 V	10Y030

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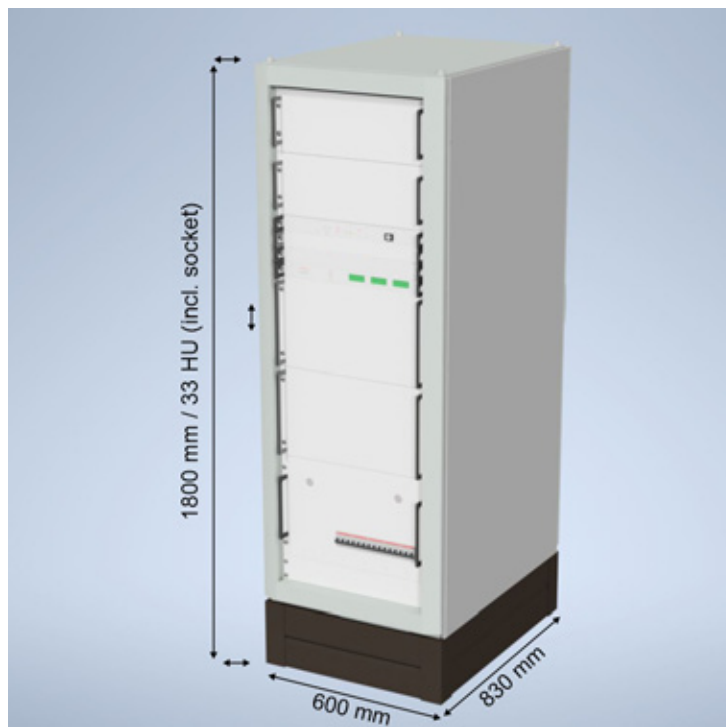
Technical Data

	HX 900	HX 1050	HX 1200	HX 1400
Operational Data				
Output Power	90 kW	105 kW	120 kW	140 kW
Output Voltage *	800 V	800 V	800 V	800 V
Output Current *	180 A	210 A	240 A	280 A
Indications (Option)	3 ½ digit display for current, voltage and power			
Control	Current, voltage or power controlled or voltage controlled with ignition automatic			
Operation Mode	External via control interface			
Set Point	0 ... 100 % of nominal value for current, voltage or power			
Output Accuracy	+ / - 1 % of nominal value for current, voltage and power			
Arc Suppression	Quenching time: 6 µs up to 3 ms, automatically Delay time: 6 µs up to 10 ms, automatically			
Mains Input Connection				
Line Voltage	3 x 400 V, + / - 10 %, 50/60 Hz, PE, (Option: 3 x 440 V or 3 x 480 V)			
Fusing	3 x 160 A	3 x 200 A	3 x 224 A	3 x 250 A
Mains Cable	4 x 50 mm ²	4 x 70 mm ²	4 x 95 mm ²	
Power Consumption	100 kVA	118 kVA	135 kVA	155 kVA
DC-Output Connection				
DC-Cable JZ-600-Y-CY	3 x JZ-600-Y-CY, 2 x 16 mm ²		4 x JZ-600-Y-CY, 2 x 16 mm ²	
Cooling System				
Water Cooling	Flow, > 15 l / min, 4 to 8 Bar, < 40° C		Flow, > 20 l / min, 4 to 8 Bar, < 40° C	
Water Connection	1" female thread			
Water Cooling Capacity	4 kW	5 kW	5.5 kW	6.5 kW
Drain	10 mm tube			
Compressed Air	4 – 8 bar, 10 mm tube			
Air Cooling	Built-in fan, maximum ambient temperature 40° C			
Air Cooling Capacity	0.6 kW		0.8 kW	
Mechanical Data				
Size (without Plug)	Cabinet, Width: 600 mm, Height: 1800 mm (33 HU), Depth 830 mm			
Weight (without Packaging)	360 kg		400 kg	

* Other voltage and current ranges on request

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Dimensions



Exemplary illustration for cabinets HX..., front panel and rear view can differ, nevertheless, dimensions are the same.

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We are happy to help!

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