

# HPS COMPACT

## DIGITALLY CONTROLLABLE AC/DC HIGH VOLTAGE POWER SUPPLY

- ▶ 350 W compact box version
- ▶ Best control characteristics
- ▶ Multiple interface options
- ▶ Capacitor charger option (CLD )
- ▶ ARC management
- ▶ Very low ripple and noise, very low EMI
- ▶ Parallel operation for power increase



HPS compact is a digitally controlled AC driven high voltage power supply with high power density at best output characteristics. The processor controlled supply can flexibly be adapted to any kind of application by configuring many options. PWM controlled output

parameters, small ripple and noise and stored energy, up to 85% efficiency and almost loss free switching of semiconductors makes HPS devices the most advanced AC/DC HV power supply for industrial and research applications.

### SPECIFICATIONS

<b>Power</b>	350 W
<b>Polarity</b>	factory fixed, positive or negative
<b>Efficiency</b>	up to 85%
<b>Ripple and noise</b> [f >10 Hz]	$< 2 \cdot 10^{-3} \cdot V_{nom}$
<b>Stability</b>	0.05 % $V_{nom}$
<b>Voltage regulation</b> [ $\Delta V_{out} / \Delta V_{in}$ ]	0.02 % [ $V_{out} \geq 5 V$ ]
<b>Temperature coefficient</b>	< 200 ppm / K
<b>Supply voltage</b>	85 - 264 VAC with PFC
<b>Switching frequency</b>	30 - 70 kHz
<b>Set / monitor voltage</b>	-
<b>Protection</b>	overload, ARC and short circuit, INTERLOCK, overvoltage/overtemp
<b>ARC management</b>	ARC
<b>Filament supply</b>	not available
<b>Interfaces</b>	USB, CAN, Ethernet*, RS232*
<b>Case</b>	10" metal box
<b>Dimensions (L/W/H)</b>	254/81/106 mm

\* Option

### CONFIGURATIONS

MODEL	V <sub>nom</sub>	I <sub>nom</sub>	HV CONNECTOR
HPx 10 357	1 kV	350 mA	G11
HPx 20 177	2 kV	175 mA	G11
HPx 30 127	3 kV	120 mA	G11
HPx 50 706	5 kV	70 mA	G11
HPx 80 456	8 kV	45 mA	G11
HPx 100 356	10 kV	35 mA	G11
HPx 150 236	15 kV	23 mA	G21
HPx 200 186	20 kV	18 mA	G21
HPx 300 126	30 kV	12 mA	G31
HPx 400 905	40 kV	9 mA	E70
HPx 500 705	50 kV	7 mA	E70
HPx 600 605	60 kV	6 mA	E70
HPx 700 505	70 kV	5 mA	E70

### OPTIONS & ORDER INFO

OPTION	ORDER INFO	EXAMPLE
<b>Polarity</b>	positive: <b>x = p</b> , negative: <b>x = n</b>	HPp 10 357
<b>Capacitor charger</b>	<b>CLD</b>	
<b>ARC management</b>	<b>ARC</b>	
<b>Interface options</b>	Ethernet: <b>ETH</b>   RS232: <b>RS2</b>	