

## HCS-3600AHR Series

960W Reversible Polarity Plating Rectifier with Amp-Hour Meter



### Description

This series of power supplies are designed for the electro-chemical surface treatment industry. This 960W switched mode DC regulated power supply is designed for applications which require frequent reverse polarity operations and an Amp-Hour display. Two sets of output terminals are provided, the main output is not reversible whilst the larger set can be reversed in polarity using the Reversing Switch. In the OFF position the voltage and current may be set. When set to reverse polarity a buzzer sounds to warn the user. Ideal features for use in brush electro-plating applications. NEW! Computer control allows the display of V & I data for recording and for programming of slow pulse waveforms and ramp times to improve anodizing and other processes. For information on brush plating services... see: [www.dalic.com.au](http://www.dalic.com.au)

### Features

- Designed for Electrochemical treatment industry
- Reversible Polarity Output with OFF position
- Precision 10 digit Amp-Hour Meter with Reset
- Constant voltage & constant current adjustment
- Rotary Encoder Controls with course & fine tuning
- Floating Ground design
- Over Temperature Protection
- Over Load and Short-Circuit Protection
- Tracking Over Voltage Protection
- Variable speed thermally controlled fan
- High RFI stability
- Active Power Factor Correction > 0.95
- Housing is available in standard bench top or 19 inch rack mount design
- USB control & data logging capability included\*

### Specifications

Models	HCS-3600AHR	HCS-3602AHR	HCS-3604AHR
Variable Output Voltage	1~16VDC	1~32VDC	1~60VDC
Variable Output Current	0~60A	0~30A	0~16A
Ripple & Noise Voltage (peak-peak at Main Terminals)	≤50mV	≤50mV	≤100mV
Voltage Load Regulation (10~100% load at Main Terminals)	≤50mV		
Voltage Line Regulation (170~264VAC variation)	≤20mV		
Current Load Regulation (10~90% Rated Voltage)	≤200mA	≤150mA	≤100mA
Current Line Regulation (170~264VAC variation)	≤50mA		
Input Voltage	200~240VAC 50/60Hz		
Efficiency	≥86.5%	≥89%	≥90%
Power Factor	Power factor correction ≥0.95 at optimal load		
Voltage Meter	3 digit LED Display ±(0.2% + 3 counts)		
Current Meter	3 digit LED Display ±(0.2% + 3 counts) - additional 4 digit display on AHM		
Amp-Hour Meter (New! More digits plus Amp display)	10 digit LED Display "999999.9999", Accuracy ±1.0% of full-scale		
Cooling System	Variable speed thermally control fan (from zero to full speed)		
Protection	Over Load, Over Temperature, Over Voltage Protection		
Dimensions (WxHxD)	430x95x280mm 17x3.75x11in (excludes knobs & terminals)		
Weight	6.8kg 15lb		
Special Features	Reverse Polarity Switch with OFF position, AH Meter with reset		

- ALL values are based on the Standard ambient Temperature 25°C and pressure 0.1Mpa.
- SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE
- Replacement or upgrade for Manson Engineering SPS-5600 and SPS-5602 (SPS-1560-AH and SPS-3030-AH)

\* PC computer software supplied on CDROM (also available for DOWNLOAD on request), USB cable, IEC C13 lead and manual included.