

**REMOTE PROGRAMMING  
LABORATORY GRADE POWER SUPPLY**  
Remote Programmable HCS-3400 USB Series



*Manson*

**FIXED VOLTAGE POWER SUPPLY**  
SPA-8150 / 8152 (Low Profile & Small Foot Print)  
Fixed Voltage Switching Mode Power Supply with Cigar Socket

*Manson*



HCS-3400-Series housing are available in Light grey (Pantone 428C) / Dark grey (Pantone 426C)



**Description**

This range of high graded SMPS is designed for a wide range of applications for telecommunications, laboratory and industry. The power efficient circuit designs allow units to have small form factor with low profile and small footprint casings.

The intelligent fan speed control program checks the fan at power on and adapts the right speed to ensure a quiet and safe operation of the power supply at different ambient temperatures and power output levels.

The dual action (coarse & fine set) control knobs make tuning the voltage and current level ever so smooth, precise and fast, due to the rotary encoder and microprocessor control. Setting the CC current limiting can be done in open circuit at output poles.

The isolated ground construction allow parallel and series connection of power supplies with ease and safety.

The three user defined presets of voltage and current limiting levels facilitate quick access to frequently used VI settings. Analogue remote control functionality offer a wide range of operation possibilities for the industrial and more sophisticated users.

We add an USB port for access to computer to run cyclical operation with programmable voltage, current, period time and cycles.

**Specifications**

Models	HCS - 3400 - USB	HCS - 3402 - USB	HCS - 3404 - USB
<b>Output</b>			
Variable Output Voltage	1 - 16VDC	1 - 32VDC	1 - 60VDC
Variable Output Current	0 - 40A	0 - 20A	0 - 10A
<b>Voltage Regulation</b>			
Load (10 - 100% Load)	≤50mV		
Line (170 - 264VAC Variation)	≤20mV		
<b>Current Regulation</b>			
Load (10 - 90% Rated Voltage)	≤150mA	≤100mA	≤100mA
Line (170 - 264VAC Variation)	≤50mA		
<b>Ripple &amp; Noise</b>			
Ripple & Noise (r.m.s.) Voltage	≤5mV	≤5mV	≤5mV
Ripple & Noise (peak-peak) Voltage	≤50mV	≤50mV	≤100mV
Switching Frequency	65 - 85KHz~	75 - 95KHz~	65 - 85KHz~
<b>Tracking Over Voltage Protections</b>	O/P 1-5V : set voltage +2V O/P 5-16V : set voltage +3V	O/P 1-5V : set voltage +2V O/P 5-20V : set voltage +3V O/P 20-32V : set voltage +4V	O/P 1-5V : set voltage +2V O/P 5-20V : set voltage +3V O/P 20-60V : set voltage +4V
<b>Meter Type &amp; Accuracy</b>			
Voltage Meter	3 Digit LED Display ±(0.2% +3counts)		
Current Meter	3 Digit LED Display ±(0.2% +3counts)		
<b>Input Voltage</b>	200 - 240VAC 50/60Hz~ (or on request)		
Full Load Input Current	3.15A	3.1A	3.1A
Efficiency	≥85.5%	≥87%	≥89%
<b>Power Factor Control</b>	Power factor correction >0.97 at optimal load		
<b>Cooling Method</b>	Thermostatic Control Fan from Zero to full speed		
<b>Protections</b>	Overload, Short Circuit by Constant Current, Output Tracking Over Voltage, Over Temperature		
<b>Special Features</b>	3 User defined V & I preset, Analogue Remote control V, I and output on-off		
<b>Preset Cycle Programming</b>	Max. 20 presets of V & I ; Max. preset cycle 999		
<b>Approvals</b>	CE EMC: EN 55011, 55022 LVD: EN 60950, 61010		
<b>Dimensions (WxHxD)</b>	200x90x215 mm 7.9x3.5x8.5 inch		
<b>Weight</b>	2.6 kg	5.7 lbs	

■ All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.  
■ SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

**Features**

- Rotary Encoder Control Knob with coarse & fine tuning
- 3 user defined V & I presets
- High RFI immunity & excellent EMI
- Isolated ground, Active PFC & high power efficiency
- Intelligent fan control from zero to full speed
- Over load, Over Temperature & Tracking Over Voltage protections
- Remote Programmable via USB to computer.
- Analogue Remote Control of V, I, & output On-Off without computer.
- 20 programmable sets of V, I & cycle periods for repetitive operation up to 999 cycles .



**Description**

This quiet running, switching mode power supply is designed for radio equipment.

It is exceptionally immune to Radio Frequency Interference at close range.

The thermostatic variable speed cooling fan is hardly audible even at its maximum speed.

It has the small footprint of popular radio transceivers, and the low profile casing make it fall in place with a host of equipment in a tight spot.

The constant current protection, over temperature protection with constant current and output Over Voltage Protection (OVP) ensure better reliability and safer protection to both the power supply and its connected load. One main DC output at rear and a front mounted cigar socket provide convenient DC connectivity.

It gives a total continuous current output of 15A at 13.8V and a maximum of 18A at 50% duty cycle.

It has excellent line and load regulation, low ripple and noise, optimal efficiency of 80% and a power factor of 0.7.

**Features**

- Fan cool ( 0 to full speed)
- High RFI immunity
- Binding post and cigar socket DC output.
- Over Load, Short Circuit, Over Temperature protections by constant current circuitry.
- Output Over Voltage Protection
- Power Factor Control
- User adjustable fine tune setting 13.3 ~ 14.5V (SPA-8150) & 26.6 ~ 29V (SPA-8152 )
- Floating ground design

**Specifications**

Models	SPA-8150	SPA-8152
<b>Output Voltage</b>	Fixed 13.8VDC ±0.5V Adjustable	Fixed 27.6VDC ±0.5V Adjustable
<b>Output Current (Main Output Posts) 1min. 50% Duty Cycle</b>	15A cont., 18A max.	7.5A cont., 8.5A max.
<b>Main Output Posts + Cigar Socket (1min. 50% Duty Cycle)</b>	15A cont., 18A max.	7.5A cont., 8.5A max.
<b>Ripple &amp; Noise</b>	≤50mVp-p 5mVrms	
<b>Load Regulation (0-100% Load)</b>	≤100mV	
<b>Line Regulation (±10% Variation)</b>	≤50mV	
<b>Input Voltage</b>	200 - 240VAC 50Hz~ (or on request)	
<b>Indicators</b>	Red Color Overload LED Indicator	
<b>Cooling System</b>	Fan Cool (0 to full speed)	
<b>Operating Temperature</b>	0 - 40°C	
<b>Protection</b>	Overload, Over Temperature, Short Circuit Protection by Constant Current Circuitry and Output Over Voltage Protection	
<b>Approvals</b>	CE EMC: EN 55022 LVD: EN 60950	
<b>Dimensions (WxHxD)</b>	181x63x190 mm 7.2x2.5x7.5 inch	
<b>Weight</b>	1.7 kgs - 3.7 lbs	

■ All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.  
■ SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Bench Top Power Supplies](#) category:*

*Click to view products by [Manson](#) manufacturer:*

Other Similar products are found below :

[NL200](#) [PR20](#) [ZUPNC403](#) [Z60-7-L-U](#) [ZUPNC402](#) [GDM-8342](#) [GPIB](#) [PSW 250-4.5](#) [CPX200DP](#) [AX-8450A](#) [TPM-3003](#) [HMP2020](#)  
[HMP2030](#) [HMP4040](#) [1320](#) [1350](#) [UT804](#) [1405](#) [1410](#) [1513](#) [1514](#) [1513](#) [1550](#) [1651A](#) [1665](#) [1666](#) [1667](#) [SDP-2405-000G](#) [1673](#) [1693](#) [1694](#)  
[MX100TP](#) [1737](#) [1739](#) [1762](#) [1788](#) [TPM-3005](#) [1900](#) [1902B](#) [9174B](#) [GDM-8245](#) [GDM-8255A](#) [GDM-8341](#) [PSW 160-7.2](#) [PSW 30-36](#) [PSW](#)  
[80-13.5](#) [Z10-20-LAN-U](#) [PSW 30-72](#) [QL355P SII](#) [Z36-6-LAN-U](#) [HCS-3400-USB](#)