REMOTE PROGRAMMING LABORATORY GRADE POWER SUPPLY

Remote Programmable HCS-3300 USB Series

USB

Manson®

HCS-3300-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.

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 .

Specifications

Models	**HCS - 3300 - USB**	**HCS - 3302 - USB**	**HCS - 3304 - USB**
Output			
Variable Output Voltage	1 - 16VDC	1 - 32VDC	1 - 60VDC
Variable Output Current	0 - 30A	0 - 15A	0 - 8A
Voltage Regulation			
Load (10 - 100% Load)	≤50mV		
Line (170 - 264VAC Variation)	≤20mV		
Current Regulation			
Load (10 - 90% Rated Voltage)	≤150mA	≤100mA	≤100mA
Line (170 - 264VAC Variation)	≤50mA		
Ripple & Noise			
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~
Tracking Over Voltage Protections	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
Meter Type & Accuracy			
Voltage Meter	3 Digit LED Display ±(0.2% +3counts)		
Current Meter	3 Digit LED Display ±(0.2% +3counts)		
Input Voltage	200 - 240VAC 50/60Hz~ (or on request)		
Full Load Input Current	2.4A		
Efficiency	≥85.5%	≥86.5%	≥87%
Power Factor Control	Power factor correction >0.95 at optimal load		
Cooling Method	Thermostatic Control Fan from Zero to full speed		
Protections	Overload, Short Circuit by Constant Current, Output Tracking Over Voltage, Over Temperature		
Special Features	3 User defined V & I preset, Analogue Remote control V, I and output on-off		
Preset Cycle Programming	Max. 20 presets of V & I, ; Max. preset cycle 999		
Approvals	CE EMC: EN 55011, 55022 LVD: EN 60950, 61010		
Dimensions (WxHxD)	200x90x215 mm 7.9x3.5x8.5 inch		
Weight	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