

LABORATORY GRADE POWER SUPPLY with C.C. CONTROL

HCS - 3300 Series

High RFI Immunity Switching Mode Power Supply w/ Rotary Encoder Control



Horizon Electronics Ltd
Power Systems



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

Features

- Rotary Encoder Control Knob with coarse & fine tuning
- 3 user defined V & I presets (recalls)
- Analogue Remote Control of V, I and output on-off
- 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

Specifications

Models	HCS - 3302
Output	
Variable Output Voltage	1 - 32VDC
Variable Output Current	0 - 15A
Voltage Regulation	
Load (10 - 100% Load)	≤50mV
Line (170 - 264VAC Variation)	≤20mV
Current Regulation	
Load (10 - 90% Rated Voltage)	≤100mA
Line (170 - 264VAC Variation)	
Ripple & Noise	
Ripple & Noise (r.m.s.) Voltage	≤5mV
Ripple & Noise (peak-peak) Voltage	≤50mV
Switching Frequency	75 - 95KHz~
Tracking Over Voltage Protections	O/P 1-5V : set voltage +2V O/P 5-20V : set voltage +3V O/P 20-32V : 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	≥86%
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
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