



## Description

Following up on the success of our HCS series high power supplies, we come up with this new range of low power supplies based on the feedbacks from end users.

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

The on-housing presets, separate remote control, rotary encoder dual action control for easy tuning of voltage and current, and all the features of the original HCS are kept. In addition it is of universal AC input voltage.

It is probably the most cost effective Remote Programmable Power supply with such advanced features and protections. It is ideal for laboratory, university, work shop, production, quality control and sophisticated DIY applications.

## Features

- Remote Programmable via USB to computer .
- 20 programmable sets of V, I & cycle periods for repetitive operation up to 999 cycles .
- 3 user defined V & I panel presets for frequent use
- Analogue Remote Control of V, I, & output On-Off without computer.
- Rotary encoder knob with definitive action of fine and coarse tuning
- Smart cooling fan speed control from zero to full speed
- Self diagnostic check on LED display and cooling fan on start up
- Isolated ground , Active PFC & high power efficiency
- Universal AC input
- Over load , Tracking Over Voltage Protections
- Constant Current limit setting with output open circuit

## Specifications

Models	HCS - 3100	HCS - 3102	HCS - 3104
<b>Output</b>			
Variable Output Voltage	1 - 18VDC	1 - 36VDC	1 - 60VDC
Variable Output Current	0 - 10A	0 - 5A	0 - 2.5A
<b>Voltage Regulation</b>			
Load (10 - 100% Rated Current)	≤50mV		
Line (90 - 264VAC Variation)	≤20mV		
<b>Current Regulation</b>			
Load (10 - 90% Rated Voltage)	≤100mA	≤100mA	≤100mA
Line (90 - 264VAC Variation)	≤50mA		
<b>Ripple &amp; Noise</b>			
Ripple & Noise (r.m.s.) Voltage	≤5mV	≤5mV	≤5mV
Ripple & Noise (peak-peak) Voltage	≤50mV	≤50mV	≤50mV
Switching Frequency	100 - 120KHz~	100 - 120KHz~	100 - 120KHz~
Tracking Over Voltage Protections	O/P 1-5V : set voltage +2V O/P 5-18V : set voltage +3V	O/P 1-5V : set voltage +2V O/P 5-20V : set voltage +3V O/P 20-36V : 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)		
Input Voltage	90 - 264VAC 50/60Hz~		
Full Load Input Current (230VAC/100VAC)	1.2/2.4A	1.2/2.5A	1.0/2.0A
Efficiency (230VAC)	≥83%	≥83%	≥83%
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 time 100 minutes (99min + 60sec), Max. preset cycle 999		
Approvals	CE EMC: EN 55011, 55022 LVD: EN 60950, 61010		
Dimensions (WxHxD)	200x80x208 mm 7.8x3.2x8.2 inch		
Weight	2.4 kg 5.2 lbs		

■ All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

■ SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE