

## 10. SPECIFICATIONS

Models	HCS-3300	HCS-3302	HCS-3304
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		
Ripple & Noise (peak-peak) Voltage	50mV	50mV	100mV
Current Ripple & Noise (r.m.s.)	50mA	20mA	10mA
Meter Type & Accuracy			
Voltage Meter	3 Digit LED Display $\pm 0.2\%$ +3 counts		
Current Meter	3 Digit LED Display $\pm 0.2\%$ +3 counts		
Other			
Input Voltage	200 – 240VAC 50/60Hz~ (or on request)		
Full Load Input Current	2.5A		
Efficiency	85%	86%	88%
Switching Frequency	65 – 85Khz~	75 – 95Khz~	65 – 85Khz~
Tracking Over Voltage Protections	O/P 1-5V: set voltage +2V O/P 5-15V: set voltage +3V	O/P 1-5V: set voltage +2V O/P 5-20V: set voltage +3V O/P 20-30V: set voltage +4V	O/P 1-5V: set voltage +2V O/P 5-20V: set voltage +3V O/P 20-60V: set voltage +4V
Transient Response Time (50-100%Load)	1.5ms		
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 VI preset, Remote control V, I and output on-off		
Preset Cycle Programming	Max. 20 presets of V & I Max. preset time 99min. + 59sec. Max. preset cycle 999		
Accessories	User Manual, Application Software, USB cable		
Approvals	CE		
Dimensions (WxHxD)	200 x 90 x 215 mm      7.9 x 3.5 x 8.5 inch		
Weight	2.6 kg      5.7 lb		