



INTERNAL POWER SUPPLY UNITS

basic datasheet, rev 2.0.01

Date: 22.3.2022

Model	STPSU r2022	
Target systems	Atari 16/32bits 520/1040 ST/F/FM/E	Atari 16/32bits Falcon030
Combined output power	40W	
Output per rail	+5V 4,0A (5.0A peak, 30 sec max)	
	+12V 1,6A (2.0A peak, 30 sec max)	
Efficiency	85 %	
LED power-on indicator	yes	
AC input	2 pin screw-in block	2 pin Molex connector
DC output	6 pin ST connector	8 pin Molex
Length of output cable	9cm +/- 1cm	
Dimensions (LxWxH)	115*87*34mm	
AC input voltage range	90~264V AC	
AC inrush current (max.)	Cold start, 25A@ 115VAC or 45A@230V AC	
No load consumption	~0.1W	
Leakage current	0.1mA	
Overload protection	Hiccup mode, auto recovery	
Over voltage protection	110%~140% of +5V output	
Setup, rise, hold up time	200ms, 50ms, 16ms at full load	
Output voltage accuracy	+/-1.5%	
Load regulation	0-120% of rated load	
Ripple and noise	+/-0.01V @5V rail, +/-0.015V @12V rail	
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1 minute	
Working temperature	from -20°C to +70°C	
Heat emission	5V/2.2A block reaches and holds temperature 37 °C after 45 minutes	
Safety standards	UL1950 (P25/50), UL60950-1, TUV EN60950-1 approved	
Safety compliance	class II device	
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11, FCC part15 class B	