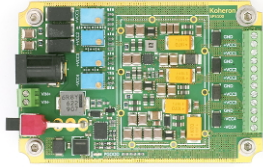


SPS100 - Quad-channel adjustable power supply



Koheron SPS100 is a 25 W power supply with 4 adjustable outputs (3 positive and 1 negative rails). It operates from a single 24 V input supply. Integrated input and output EMI filters ensure low levels of ripple and radiated emissions (< 10 mV_{pp}). The SPS100 allows powering different modules from a single power supply.

Specifications

	SPS100
9 V to 15 V output (+VCC1)	
Maximum output current	600 mA
Efficiency at 12 V / 0.6 A	90 %
Ripple and noise (20 MHz bandwidth 12 V out.)	8 mV _{pp}
Start up time to 15 V	10 ms
Load regulation	2.5 % max.
3 V to 6 V output (+VCC2)	
Maximum output current	1.6 A
Efficiency at 5 V / 1.6 A	83 %
Ripple and noise (20 MHz bandwidth 6 V out.)	8 mV _{pp}
Start up time to 6 V	30 ms
Load regulation	2.5 % max.
3 V to 9 V output (+VCC3)	
Maximum output current	600 mA
Efficiency at 5 V / 0.6 A	82 %
Ripple and noise (20 MHz bandwidth 6 V out.)	6 mV _{pp}
Start up time to 9 V	4 ms
Load regulation	4.5 % max.
-3 V to -9 V output (-VCC4)	
Maximum output current	400 mA
Efficiency at -5 V / 0.4 A	80 %
Ripple and noise (20 MHz bandwidth -4 V out.)	7 mV _{pp}

Start up time to -9 V	6 ms
Load regulation	3.5 % max.
Input supply	
Input voltage	18 - 26 V (nominal 24 V)
Input connector	Jack (1.95 mm) or terminal block
Input current limit	2 A
Input current no load (max. voltage on each output)	2 mA
Surge voltage (10 s max.)	50 V max.
Start up voltage	18 V max.
Under voltage lock-out	16.5 V typ.
Other	
Outside Dimensions	79 mm x 50 mm x 15 mm
Weight	40 g
Operating temperature	0 - 50 °C

Conversion efficiency

