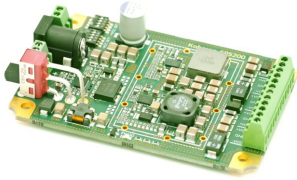


Dual power supply



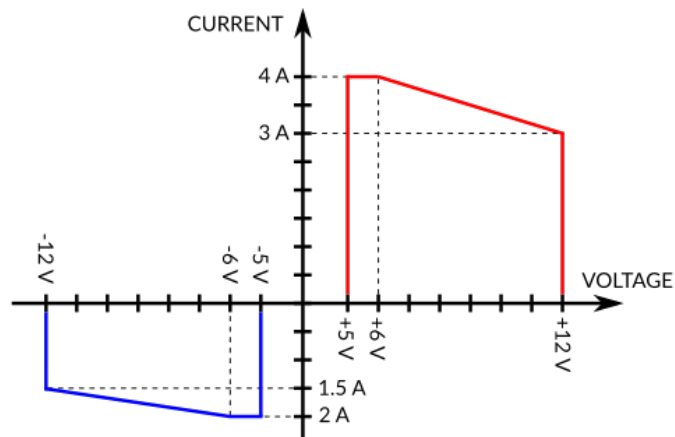
Koheron SPS200 is a 36 W dual power supply with two output voltages settable from +/-5 V to +/-12 V. It operates from a single 18 V to 33 V input supply. Integrated input and output EMI filters ensure low levels of ripple and radiated emissions. Thanks to its high output power, many modules can be supplied from a single SPS200.

Specifications

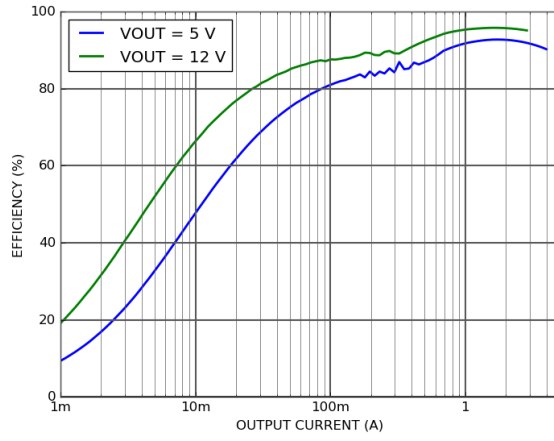
	SPS200-PN	SPS200-PP
Positive output(s) (+5 V to +12.5 V)		
Maximum output current +5 V to +6 V	4 A	4 A
Maximum output current at 12 V	3 A	3 A
Efficiency at 12 V, 3 A (24 V input)	95 %	95 %
Ripple and noise (10 Hz to 5 MHz bandwidth, +12 V, 3 A)	1.4 mV _{rms}	1.4 mV _{rms}
Start up time to +12 V	50 ms	50 ms
Load regulation (5 V out.)	3 % max.	3 % max.
Negative output (-5 V to -12.5 V)		
Maximum output current -5 V to -6 V	2 A	
Maximum output current at -12 V	1.5 A	
Efficiency at -12 V, 1.5 A (24 V input)	87 %	
Ripple and noise (10 Hz to 5 MHz bandwidth, -12 V, 1.44 A)	800 μV _{rms}	
Start up time to -12 V	250 ms	
Load regulation (-5 V out.)	2 % max.	
Input power supply		
Input voltage	18 V to 33 V (nominal 24 V)	18 V to 33 V (nominal 24 V)

Input supply connector	Jack (2.1 & 2.5 mm) or terminal block	Jack (2.1 & 2.5 mm) or terminal block
Input current limit	3.3 A	3.3 A
Input current no load ($V_{in} = 24$ V, +/-12 V output)	3 mA	3 mA
Surge voltage (1 s max.)	50 V max.	50 V max.
Overvoltage lock-out	36 V typ.	36 V typ.
Other		
Maximum output power	36 W	48 W
Outside dimensions	79 mm x 50 mm x 15 mm	79 mm x 50 mm x 15 mm
Weight	36 g	36 g
Operating temperature	0 °C to 50 °C	0 °C to 50 °C
Temperature coefficient	75 ppm/°C	75 ppm/°C

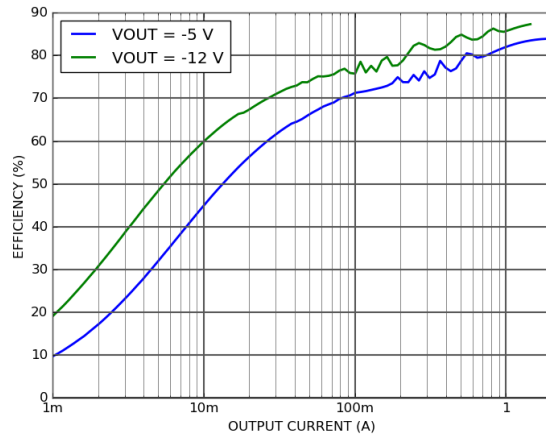
Operating limits



Positive output efficiency ($V_{in} = 24$ V)



Negative output efficiency ($V_{in} = 24\text{ V}$)



Ordering codes

REFERENCE	ATTRIBUTE
SPS200-PN	Outputs Positive / Negative
SPS200-PP	Outputs Positive / Positive