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HIGH QUALITY SWITCHING POWER SUPPLIES

DC/DC SWITCHING POWER SUPPLY
DUAL CHANNEL OUTPUT
30 WATTS

OCH30D SERIES

General Description



Features

1. High Efficiency
2. Six-sided continuous shield
3. 4:1 input range
4. Power module for PCB mountable
5. Standard Package

Options

- Screw Terminal (add suffix "-S")
- Remote ON/OFF (add suffix "-R")

Application

Input

Input Voltage Range: DC10~40V OCH30S24-XX
DC36~75V OCH30S48-XX

Switching frequency: 250kHz

Filter: Pi Type





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Output Characteristic	Unit	Models					
		OCH30D24-5		OCH30D24-12		OCH30D24-15	
Output Voltage	Vdc	+5	-5	+12	-12	+15	-15
Output Current	mA	+3000	-3000	+1250	-1250	+1000	-1000
Ripple		100mV max			±1%		
Noise(max)		100mV max			±1%		
Voltage Accuracy	V	±2%					
Trim		±10%					
Capacitor Load (max.)	uF	+4800	-4800	+560	-560	+470	-470
Regulation							
a. Line Regulation [max]	mV	± 0.5%					
b. Load Regulation	mV	± 1%					
c. Temperature Coefficient	/°C	± 0.02%					

Efficiency	*1	%	81	83	83
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Output Characteristic	Unit	Models					
		OCH30D48-5		OCH30D48-12		OCH30D48-15	
Output Voltage	Vdc	+5	-5	+12	-12	+15	-15
Output Current	mA	+3000	-3000	+1250	-1250	+1000	-1000
Ripple		100mV max			±1%		
Noise(max)		100mV max			±1%		
Voltage Accuracy	V	±2%					
Trim		±10%					
Capacitor Load (max.)	uF	+4800	-4800	+560	-560	+470	-470
Regulation							
a. Line Regulation [max]		± 0.5%					
b. Load Regulation		± 1%					
c. Temperature Coefficient	/°C	± 0.02%					

Efficiency	*1	%	82	84	83
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Conditions:

*1 Rated input and Rated output

*2 at Output current quick change 25% to 75%

*3 At 100% load (convection cooling)



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Environmental Specification	
Operating Temperature*3	-25 to +70 °C (with derating)
Storage Temperature	-55 to +105 °C
Storage Humidity	95% RH [non-condensing] max
Isolation Resistance	Input-Output 100MΩ
Isolation Voltage	1600 VDC Input-Output
Isolation Capacitance	1000pF
Cooling	Convection
MTBF	>550,000 hours at 25°C
Function/Protection	
Short circuit Protection	Hiccup mode, auto-recovery
Over Voltage Protection	Zener Diode Clamp
Over Power Protection	Works at over 120% and auto-recovery
Mechanical	
Dimension [mm]	50.8W × 40.6L × 11.9H ±0.5
Weight [g] (typical)	58

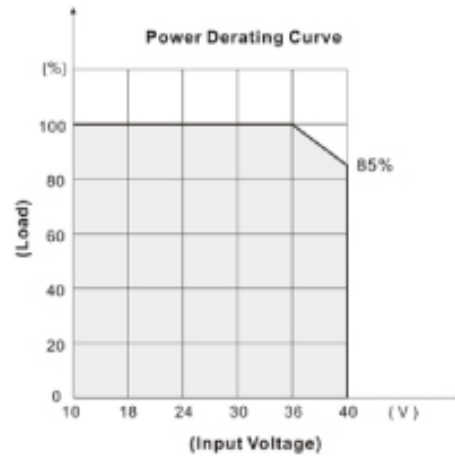
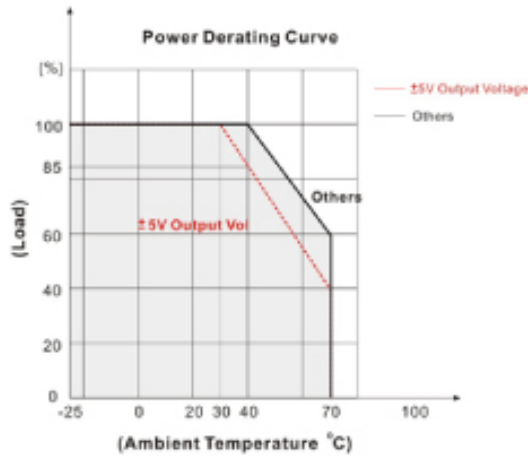




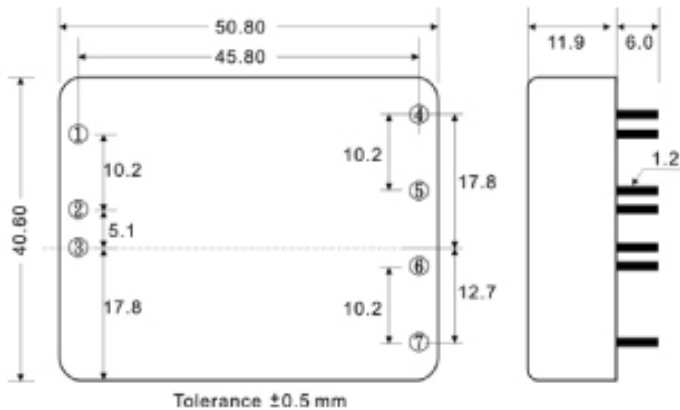
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Derating Curves



Mechanical drawings



PIN#	Single	Dual
1	CTRL	CTRL
2	-DC IN	-DC IN
3	+DC IN	+DC IN
4	TRIM	TRIM
5	-DC OUT	-DC OUT
6	+DC OUT	COMMON
7	NO PIN	+DC OUT



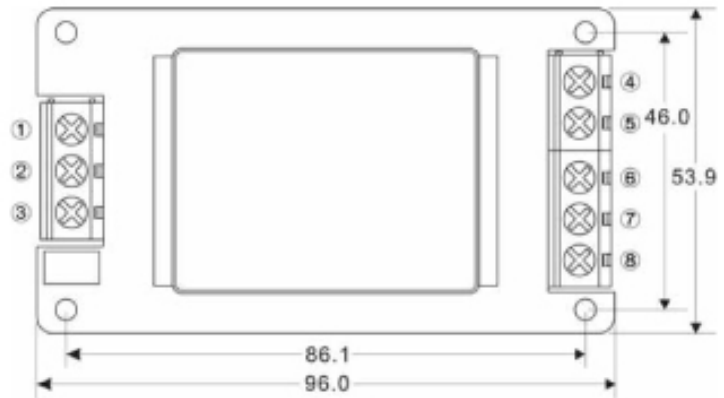


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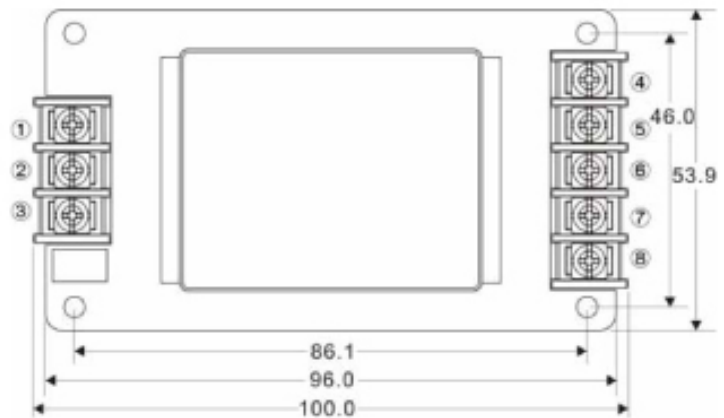
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Mechanical drawing with screw terminal

PIN#	Single	Dual
1	CTRL	CTRL
2	-DC IN	-DC IN
3	+DC IN	+DC IN
4	TRIM	TRIM
5	-DC OUT	-DC OUT
6	NO CONNECT	NO CONNECT
7	+DC OUT	COMMON
8	NO CONNECT	+DC OUT



PIN#	Single	Dual
1	CTRL	CTRL
2	-DC IN	-DC IN
3	+DC IN	+DC IN
4	TRIM	TRIM
5	-DC OUT	-DC OUT
6	NO CONNECT	NO CONNECT
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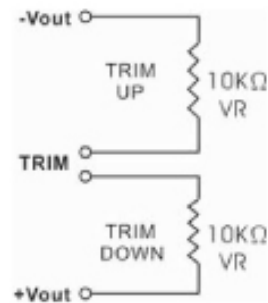




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Remote ON/OFF



Block Diagram

Dual Output

