



ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

DC/DC SWITCHING POWER SUPPLY
DUAL CHANNEL OUTPUT
15 WATTS

OCH15D SERIES



General Description

Features

1. Power module for PCB mountable
2. Low Cost, high reliability
3. 2:1 input range
4. Regulated Output
5. Low ripple and Noise

Options

Remote ON/OFF

Application

Broad needs

Input

Input Voltage Range:	DC9~18V OCH15D12-XX
	DC18~36V OCH15D24-XX
	DC36~75V OCH15D48-XX

Switching frequency: 300kHz (typ.)





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Output Characteristic	Unit	Models					
		OCH15D12-5		OCH15D12-12		OCH15D12-15	
Output Voltage	Vdc	+5	-5	+12	-12	+15	-15
Output Current	mA	+1500	-1500	+625	-625	+500	-500
Ripple		<0.2%Vout+ 40mVpp					
Noise(max)		<0.5%Vout + 50mVpp					
Voltage Accuracy	V	±2%					
Regulation							
a. Line Regulation [max]	mV	± 0.5%					
b. Load Regulation	mV	± 1%					
c. Temperature Coefficient	/°C	± 0.02%					

Efficiency	*1	%	78	79	79
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Output Characteristic	Unit	Models					
		OCH15D48-5		OCH15D48-12		OCH15D48-15	
Output Voltage	Vdc	+5	-5	+12	-12	+15	-15
Output Current	mA	+1500	-1500	+625	-625	+500	-500
Ripple		<0.2%Vout+ 40mVpp					
Noise(max)		<0.5%Vout + 50mVpp					
Voltage Accuracy	V	±2%					
Regulation							
a. Line Regulation [max]		± 0.5%					
b. Load Regulation		± 1%					
c. Temperature Coefficient	/°C	± 0.02%					

Efficiency *1	%	78	79	79

Conditions:

*1 Rated input and Rated output

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

*3 At 100% load (convection cooling)

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
Isolation Capacitance	1000pF
Cooling	Convection
MTBF	>800,000 hours at 25°C
Function/Protection	
Short circuit Protection	Current limit, auto-recovery
Over Voltage Protection	Zener Diode Clamp
Over Power Protection	Works at over 120% and auto-recovery
Mechanical	
Dimension [mm]	50.1W × 25.4L × 10.8H ±0.5
Weight [g] (typical)	32

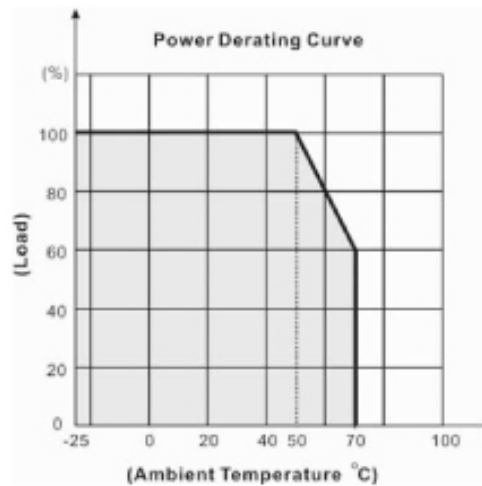




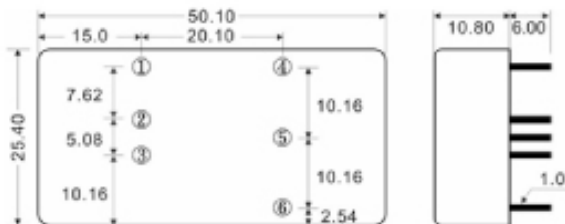
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Derating Curves



Mechanical drawings



PIN#	Single	Dual
1	ON / OFF CTL (Optional)	ON / OFF CTL (Optional)
2	-DC IN	-DC IN
3	+DC IN	+DC IN
4	-DC OUT	-DC OUT
5	NO PIN	COMMON
6	+DC OUT	+DC OUT





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Block Diagram

Dual Outputs

