

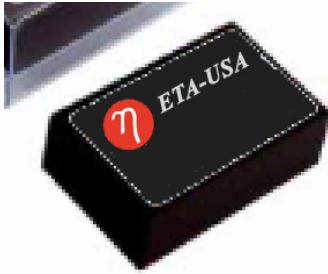


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HIGH QUALITY SWITCHING POWER SUPPLIES

DC/DC SWITCHING POWER SUPPLY
SINGLE CHANNEL OUTPUT
1.5 WATTS

OCH1.5S SERIES



General Description

Features

1. Power module for PCB mountable
2. Fully Encapsulated Plastic Case
3. Regulated Output
4. Low ripple and Noise

Options

Application

Broad needs

Input

Input Voltage Range:

DC4.5~5.5V	OCH1.5S5-XX
DC10.8~13.2V	OCH1.5S12-XX
DC21.6~26.4V	OCH1.5S24-XX
DC43.2~52.8V	OCH1.5S48-XX

Switching frequency: 20kHz (typ.)



ETA USA

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Output Characteristic	Unit	Models			
		OCH1.5S5-5	OCH1.5S5-12	OCH1.5S5-15	OCH1.5S5-24
Output Voltage	Vdc	5	12	15	24
Output Current	mA	300	125	100	63
Ripple	mVpp	< 0.2% Vout + 10mV			
Noise(max)	mVpp	< 0.5% Vout + 30mV			
Voltage Accuracy	V	±3%			
Regulation					
a. Line Regulation [max]	mV	± 0.3%			
b. Load Regulation	mV	± 0.5%			
c. Temperature Coefficient	/°C	± 0.02%			

Efficiency	*1	%	60	54	56	58
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Output Characteristic	Unit	Models			
		OCH1.5S12-5	OCH1.5S12-12	OCH1.5S12-15	OCH1.5S12-24
Output Voltage	Vdc	5	12	15	24
Output Current	mA	300	125	100	63
Ripple	mVpp	< 0.2% Vout + 10mV			
Noise(max)	mVpp	< 0.5% Vout + 30mV			
Voltage Accuracy	V	±3%			
Regulation					
a. Line Regulation [max]	mV	± 0.3%			
b. Load Regulation	mV	± 0.5%			
c. Temperature Coefficient	/°C	± 0.02%			

Efficiency	*1	%	65	60	62	64
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Output Characteristic	Unit	Models			
		OCH1.5S24-5	OCH1.5S24-12	OCH1.5S24-15	OCH1.5S24-24
Output Voltage	Vdc	5	12	15	24
Output Current	mA	300	125	100	63
Ripple	mVpp	< 0.2% Vout + 10mV			
Noise(max)	mVpp	< 0.5% Vout + 30mV			
Voltage Accuracy	V	±3%			
Regulation					
a. Line Regulation [max]	mV	± 0.3%			
b. Load Regulation	mV	± 0.5%			
c. Temperature Coefficient	/°C	± 0.02%			

Efficiency	*1	%	57	55	55	58
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Output Characteristic	Unit	Models			
		OCH1.5S48-5	OCH1.5S48-12	OCH1.5S48-15	OCH1.5S48-24
Output Voltage	Vdc	5	12	15	24
Output Current	mA	300	125	100	63
Ripple	mVpp	< 0.2% Vout + 10mV			
Noise(max)	mVpp	< 0.5% Vout + 30mV			
Voltage Accuracy	V	±3%			
Regulation					
a. Line Regulation [max]		± 0.3%			
b. Load Regulation		± 0.5%			
c. Temperature Coefficient	/°C	± 0.02%			

Efficiency	*1	%	53	52	51	54
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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)



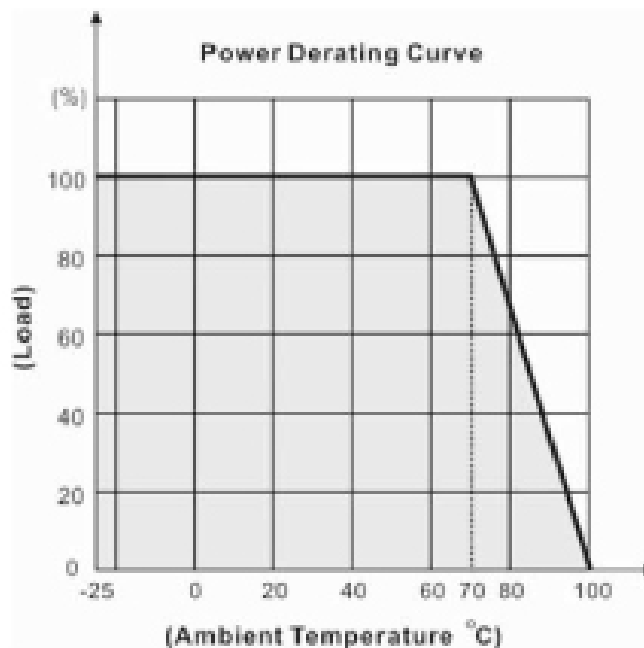


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Environmental Specification	
Operating Temperature*3	-25 to +70 °C (at full load)
Storage Temperature	-55 to +105 °C
Storage Humidity	95% RH [non-condensing] max
Isolation Resistance	Primary-Secondary-Frame Ground 100MΩ(minimum) by DC500V insulation tester
Cooling	Convection
MTBF	>1,000,000 hours at 25°C
Function/Protection	
Short circuit Protection	Current limit, auto-recovery
Over Power Protection	Works at over 120% and auto-recovery
Mechanical	
Dimension [mm]	31.8W × 20.3L × 10.2H ±0.5
Weight [g] (typical)	13

Derating Curves

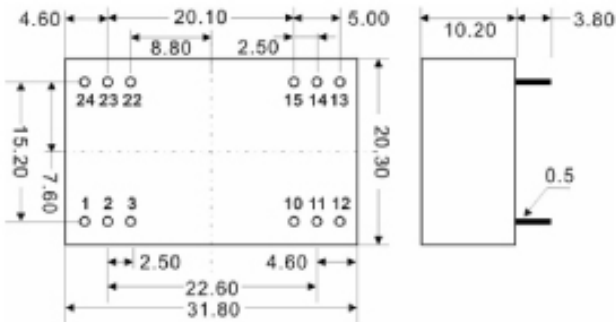




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Mechanical drawings



PIN#	Single	Dual
1	+VIN	+VIN
2	NC	-VOUT
3	NO PIN	COMMON
10	-VOUT	COMMON
11	+VOUT	+VOUT
12	-VIN	-VIN
13	-VIN	-VIN
14	+VOUT	+VOUT
15	-VOUT	COMMON
22	NO PIN	COMMON
23	NC	-VOUT
24	+VIN	+VIN

Block Diagram

