



- Single / Dual / Triple Outputs
- Universal 90 to 264VAC Input
- 3.3Volts(DC) to 48Volts(DC) Outputs
- 4242VDC Input to Output Isolation
- PCB and Chassis Mount Packages
- Full Safety Approvals



Fully Approved

Model Number	Output Voltage	Output Amps	Output Watts	Load Regulation	Efficiency	Ripple & Noise
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**SINGLE OUTPUT - PCB Mount**

ESCA-0300	3.3 Volts(DC)	7.5 Amps	25W	3% max.	73%, typ.	150mV p-p max.
ESCA-0301	5 Volts(DC)	6 Amps	30W	2% max.	78%, typ.	150mV p-p max.
ESCA-0322	9 Volts(DC)	3.33 Amps	30W	1% max.	81%, typ.	150mV p-p max.
ESCA-0302	12 Volts(DC)	2.5 Amps	30W	1% max.	83%, typ.	150mV p-p max.
ESCA-0303	15 Volts(DC)	2 Amps	30W	1% max.	84%, typ.	150mV p-p max.
ESCA-0318	18 Volts(DC)	1.67 Amps	30W	1% max.	84%, typ.	150mV p-p max.
ESCA-0305	24 Volts(DC)	1.25 Amps	30W	1% max.	84%, typ.	150mV p-p max.
ESCA-0312	48 Volts(DC)	0.63 Amps	30W	1% max.	85%, typ.	150mV p-p max.

**SINGLE OUTPUT - Chassis Mount**

ESCC-0300	3.3 Volts(DC)	7.5 Amps	25W	3% max.	73%, typ.	150mV p-p max.
ESCC-0301	5 Volts(DC)	6 Amps	30W	2% max.	78%, typ.	150mV p-p max.
ESCC-0322	9 Volts(DC)	3.33 Amps	30W	1% max.	81%, typ.	150mV p-p max.
ESCC-0302	12 Volts(DC)	2.5 Amps	30W	1% max.	83%, typ.	150mV p-p max.
ESCC-0303	15 Volts(DC)	2 Amps	30W	1% max.	84%, typ.	150mV p-p max.
ESCC-0318	18 Volts(DC)	1.67 Amps	30W	1% max.	84%, typ.	150mV p-p max.
ESCC-0305	24 Volts(DC)	1.25 Amps	30W	1% max.	84%, typ.	150mV p-p max.
ESCC-0312	48 Volts(DC)	0.63 Amps	30W	1% max.	85%, typ.	150mV p-p max.

**SINGLE OUTPUT - DIN Rail Mount**

ESCC-0300/DRL	3.3 Volts(DC)	7.5 Amps	25W	3% max.	73%, typ.	150mV p-p max.
ESCC-0301/DRL	5 Volts(DC)	6 Amps	30W	2% max.	78%, typ.	150mV p-p max.
ESCC-0322/DRL	9 Volts(DC)	3.33 Amps	30W	1% max.	81%, typ.	150mV p-p max.
ESCC-0302/DRL	12 Volts(DC)	2.5 Amps	30W	1% max.	83%, typ.	150mV p-p max.
ESCC-0303/DRL	15 Volts(DC)	2 Amps	30W	1% max.	84%, typ.	150mV p-p max.
ESCC-0318/DRL	18 Volts(DC)	1.67 Amps	30W	1% max.	84%, typ.	150mV p-p max.
ESCC-0305/DRL	24 Volts(DC)	1.25 Amps	30W	1% max.	84%, typ.	150mV p-p max.
ESCC-0312/DRL	48 Volts(DC)	0.63 Amps	30W	1% max.	85%, typ.	150mV p-p max.



- Single / Dual / Triple Outputs
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Fully Approved

Model Number	Output Voltage	Output Amps	Output Watts	Load Regulation	Ripple & Noise	Efficiency
<b>DUAL OUTPUT - PCB Mount</b>						
EDCA-0306	±12 Volts(DC)	±1.25 Amps	30W	±3% max.	±100mV p-p max.	80%, typ.
EDCA-0307	±15 Volts(DC)	±1 Amps	30W	±3% max.	±100mV p-p max.	80%, typ.
EDCA-0308	+5/12 Volts(DC)	3/1.25 Amps	30W	±2 / ±4% max.	100 / 150mV p-p max.	74%, typ.
<b>DUAL OUTPUT - Chassis Mount</b>						
EDCC-0306	±12 Volts(DC)	±1.25 Amps	30W	±3% max.	±100mV p-p max.	80%, typ.
EDCC-0307	±15 Volts(DC)	±1 Amps	30W	±3% max.	±100mV p-p max.	80%, typ.
EDCC-0308	+5/12 Volts(DC)	3/1.25 Amps	30W	±2 / ±4% max.	100 / 150mV p-p max.	74%, typ.
<b>DUAL OUTPUT - DIN Rail Mount</b>						
EDCC-0306/DRL	±12 Volts(DC)	±1.25 Amps	30W	±3% max.	±100mV p-p max.	80%, typ.
EDCC-0307/DRL	±15 Volts(DC)	±1 Amps	30W	±3% max.	±100mV p-p max.	80%, typ.
EDCC-0308/DRL	+5/12 Volts(DC)	3/1.25 Amps	30W	±2 / ±4% max.	100 / 150mV p-p max.	74%, typ.
<b>TRIPLE OUTPUT - PCB Mount</b>						
ETCA-0309	+5,±12 Volts(DC)	3,0.63/0.63 Amps	30W	0.6 / ±0.5% max.	100, ±75mV p-p max.	74%, typ.
ETCA-0311	+5,±15 Volts(DC)	3,0.5/0.5 Amps	30W	0.6 / ±0.5% max.	100, ±75mV p-p max.	74%, typ.
<b>TRIPLE OUTPUT - Chassis Mount</b>						
ETCC-0309	+5,±12 Volts(DC)	3,0.63/0.63 Amps	30W	0.6 / ±0.5% max.	100, ±75mV p-p max.	74%, typ.
ETCC-0311	+5,±15 Volts(DC)	3,0.5/0.5 Amps	30W	0.6 / ±0.5% max.	100, ±75mV p-p max.	74%, typ.
<b>TRIPLE OUTPUT - DIN Rail Mount</b>						
ETCC-0309/DRL	+5,±12 Volts(DC)	3,0.63/0.63 Amps	30W	0.6 / ±0.5% max.	100, ±75mV p-p max.	74%, typ.
ETCC-0311/DRL	+5,±15 Volts(DC)	3,0.5/0.5 Amps	30W	0.6 / ±0.5% max.	100, ±75mV p-p max.	74%, typ.



## 30W Ultraminiature Encapsulated Switching Power Supplies

## ECA30 series

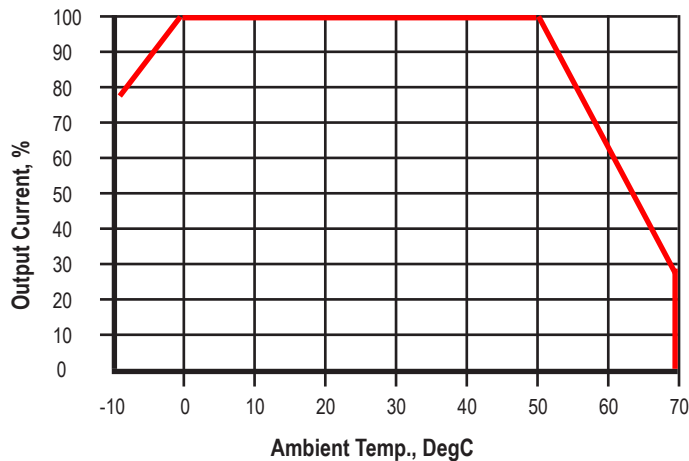
### INPUT SPECIFICATIONS

Input Voltage, Nominal	90-264VAC
	Nominal: 100-240VAC
Input Frequency	47-63 Hz, 50-60Hz Nom.
Inrush Current	30A @ 115VAC, typ
	60A @ 230VAC, typ

### OUTPUT SPECIFICATIONS

Output Voltage/Current	See Specific Model
Preset Accuracy	±1% (±2 / ±5% -0308)
Triples:	1%, ±5%
Load Regulation	See Specific Model
Line Regulation	±1%, max.
Triples:	0.6%, ±0.2%
Temperature Coefficient	±0.03%/°C
Ripple/Noise(20Mhz BW)	See Specific Model
Oversvoltage Protection	Latching, Auto Recovery *
Hold Up Time	20mS, typ
Short Circuit Protection	Latching, Auto Recovery *
Current Limit	>110% of Full Scale, Power Limit

### DERATE CURVE



All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted

\* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranted nor implied.

### GENERAL SPECIFICATIONS

Isolation	4242VDC Input-Output
Switching Frequency	65 Khz, fixed
Efficiency (@ Full Load)	See Specific Model
Safety	UL60950-1, EN60950-1

### ENVIRONMENTAL SPECIFICATIONS

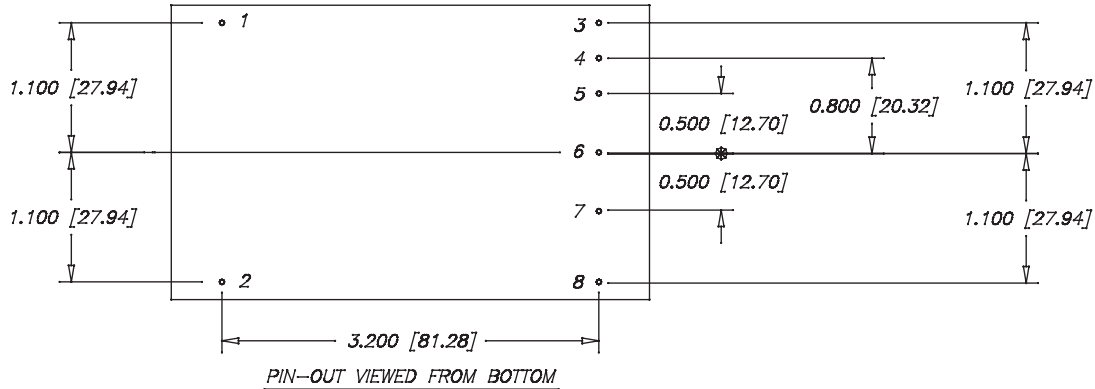
Oper. Temperature	0 to +50°C FL See Derate *
	(Free-air Convection)
Relative Humidity	0-95%, Non-Condensing
Storage Temperature	-25 to +71°C *
EMC	EN55022, Class II

### PHYSICAL SPECIFICATIONS

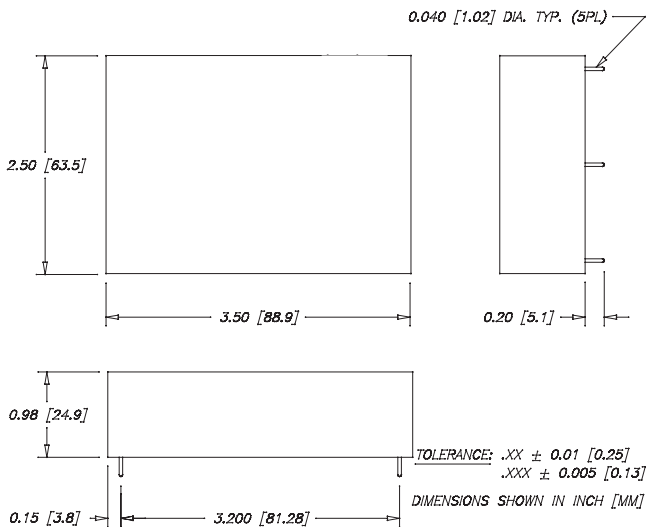
Case Material	Rynite, 94V-0 Rated
Construction	Encapsulated,
Size PCB Mount	Single O/P: 3.5" x 2.5" x 0.98"
	Multi O/P: 4.06" x 2.5" x 0.98"
Chassis Mount	Single O/P: 4.76" x 2.56" x 1.0"
	Multi O/P: 5.34" x 2.56" x 1.0"
Weight	PCB / CHASSIS Mount
Singles	10.4 oz (292g) / 13.4 oz (376g)
Duals/Triples	12.1 oz (340g) / 15.4 oz (430g)

**Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.**

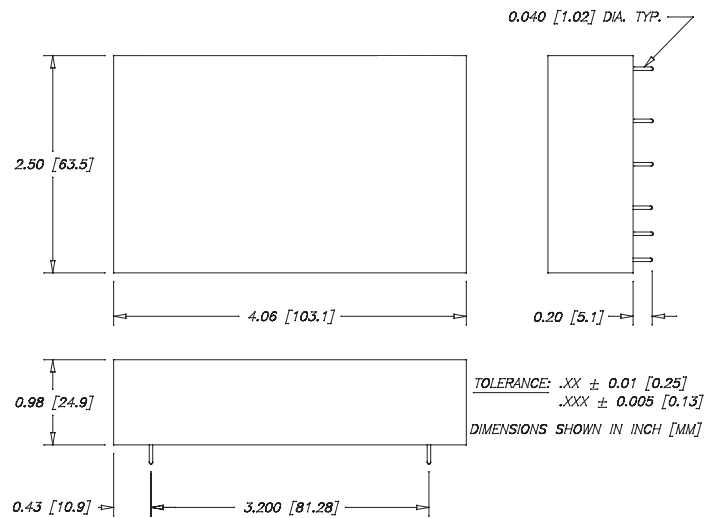
### MECHANICAL DIMENSIONS - PCB MOUNT



#### SINGLE OUTPUT

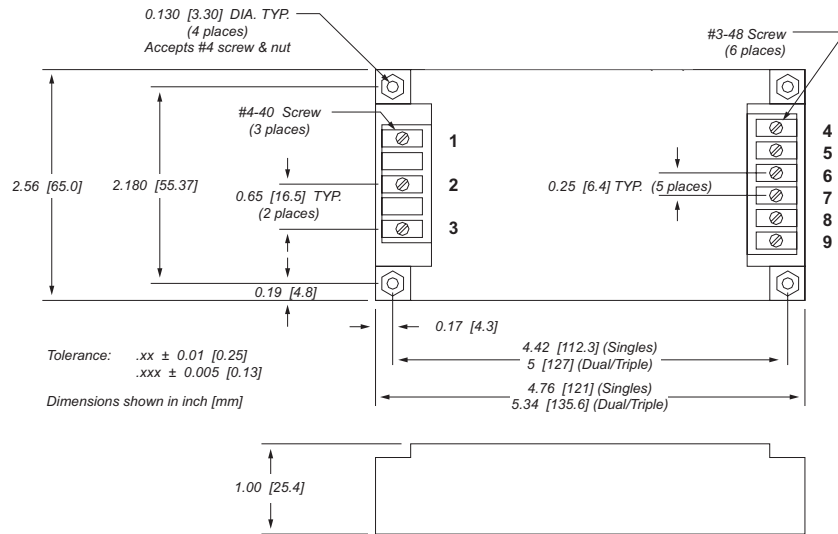


#### DUAL/TRIPLE OUTPUT

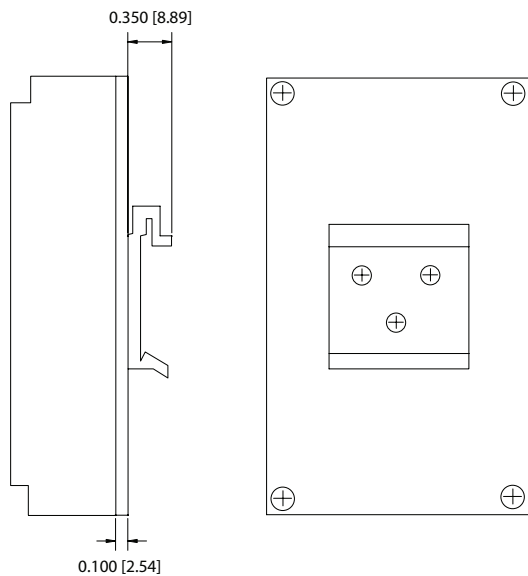


Model Type / Pin#	Single	Dual Matched	Dual 5/12V	Triple
1	AC HI	AC HI	AC HI	AC HI
2	AC LO	AC LO	AC LO	AC LO
3	No Pin	-Vout	Com	-Vout
4	No Pin	No Pin	No Pin	No Pin
5	No Pin	No Pin	No Pin	+5 Ret
6	-Vout	Com	+5out	+/-Com
7	No Pin	No Pin	No Pin	+5Vout
8	+Vout	+Vout	+12Vout	+Vout

### MECHANICAL DIMENSIONS - CHASSIS MOUNT



### MECHANICAL DIMENSIONS - DIN RAIL



Model Type / Pin#	Single	Match Dual	Unmatch Dual	Triple
1	AC LO	AC LO	AC LO	AC LO
2	N/C	N/C	N/C	N/C
3	AC HI	AC HI	AC HI	AC HI
4	+Vout	+Vout	+12Vout	+Vout
5	+Vout	Com	+5Vout	+5Vout
6	-Vout	Com	+5Vout	+/- Com
7	-Vout	-Vout	Com	+5V Ret
8	N/C	N/C	Com	-Vout
9	N/C	N/C	N/C	N/C

DIN Rail mounting kit available for Chassis-mount modules.  
 - For 30 watt single outputs specify part # M-DRL-30S  
 - For 30 watt dual/single outputs specify part # M-DRL-30T  
 Kit includes mounting plate, DIN Rail cliip and assembly hardware.