

5E Series

25-30W DC-DC Converters

Features

- 30W Isolation output
- 2:1 Input Range
- Six-sided Shield
- Remote On/Off Control
- Efficiency To 82%
- 200KHz switching frequency

Model Number	Input Voltage	Output Voltage	Output Current	Input Current		% Efficiency	Case
				No Load	Full Load		
5E-01	9-18 VDC	5 VDC	5000 mA	30 mA	2700 mA	77	E
5E-02		12 VDC	2500 mA	30 mA	3150 mA	79	
5E-03		15 VDC	2000 mA	30 mA	3150 mA	79	
5E-04		±12 VDC	±1250 mA	35 mA	3100 mA	81	
5E-05		±15 VDC	±1000 mA	35 mA	3100 mA	81	
5E-06		5/±12 VDC	3000/±625 mA	35 mA	3200 mA	78	
5E-07		5/±15 VDC	3000/±500 mA	35 mA	3200 mA	78	
5E-08		+5/+12/-5 VDC	3000/600/1000 mA	30 mA	2940 mA	77	
5E-11	18-36 VDC	5 VDC	5000 mA	30 mA	1350 mA	77	E
5E-12		12 VDC	2500 mA	30 mA	1550 mA	81	
5E-13		15 VDC	2000 mA	30 mA	1550 mA	81	
5E-14		±12 VDC	±1250 mA	30 mA	1500 mA	84	
5E-15		±15 VDC	±1000 mA	30 mA	1500 mA	84	
5E-16		5/±12 VDC	3000/±625 mA	30 mA	1580 mA	79	
5E-17		5/±15 VDC	3000/±500 mA	30 mA	1560 mA	80	
5E-18		+5/+12/-5 VDC	3000/600/1000 mA	30 mA	1450 mA	78	
5E-21	36-72 VDC	5 VDC	5000 mA	30 mA	1350 mA	78	E
5E-22		12 VDC	2500 mA	15 mA	770 mA	81	
5E-23		15 VDC	2000 mA	15 mA	770 mA	81	
5E-24		±12 VDC	±1250 mA	20 mA	750 mA	84	
5E-25		±15 VDC	±1000 mA	20 mA	750 mA	84	
5E-26		5/±12 VDC	3000/±625 mA	20 mA	790 mA	79	
5E-27		5/±15 VDC	3000/±500 mA	20 mA	780 mA	80	
5E-28		+5/+12/-5 VDC	3000/600/1000 mA	20 mA	725 mA	78	

Note: Nominal Input Voltage 12, 24, 28 or 48VDC

Specifications

Input Specifications:

Input Voltage Range.....	12V.....	9-18V
	24V.....	18-36V
	48V.....	36-72V
Input Filter.....	Pi Type	

Output Specifications:

Voltage Accuracy	
Single output.....	+/- 1.0 % max.
Dual output.....	+/- 3.0 % max.
Triple, 5V.....	+/- 1.0 % max.
12V/15V/ -5V.....	+/- 3.0 % max.
Voltage Balance (Dual).....	+/- 1.0 % max.
External trim Adj. Range.....	+/- 10%
Ripple & Noise, 20 MHz BW.....	75 mV p-p max.
Temperature Coefficient.....	+/- 0.02 % /°C max.
Short Circuit Protection.....	Continuous
Line Regulation ¹ Single / Dual Output.....	+/- 0.2 % max.
Triple.....	+/- 1.0% max.
Load Regulation ² Single / Dual Output.....	+/- 1.0 % max.
Triple.....	+/- 5.0 % max.

General Specifications :

Efficiency.....	see table
Isolation Resistance.....	100Mohm
Switching Frequency.....	200 KHz, min.

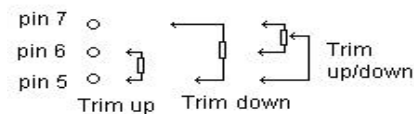
Outline Information and Pin-out

Pin Connection			
Pin	Single	Dual	Triple
1	+Input	+Input	+Input
2	-Input	-Input	-Input
3	No pin	+Output	+Output
4	Trim	Common	Common
5	No pin	-Output	-Output
6	+Output	No pin	+5V output
7	-Output	No pin	No pin
8	Remote On/Off Control		

Remote On/Off Control	
Logic compatibility	CMOS or Open collector TTL
Ec-On	>5.5 Vdc or open circuit
Ec-Off	<1.8 Vdc
Shutdown Idle current	10mA
Input resistance	100K ohms (Ein 0Vdc to 9Vdc)
Control common	referenced to Input minus

External Output Trimming

Output may optionally be externally trimmed (+/-10%) with a fixed resistor or an external trimpot as shown.



Operating Temperature Range.....	-25° C ~ +71° C
Case Temperature.....	100° C max.
Cooling.....	Free air convection
Storage Temperature Range.....	-55° C ~ +105° C
Isolation Voltage.....	500VDC min.
EMI/RFI.....	Six-sided continus shield
Dimensions.....	2.65" x3" x 0.83 "(65 x 76.2 x 21.1 mm)
Case Material.....	Black Coated Copper with Non-conducted base

Triple output loading table			
Ouput (pin no.)	Voltage (V)	Amperes	
		Min. (2)	Nom.
6	+5	0.25	1.5
3 & 5	+12 or -12	0.1	0.31
3 & 5	+15 or -15	0.1	0.25
3 & 5	+12 or -5	0.1/0.1	0.31/0.5

- Note: 1. measured from high lin to low line
 2. measured from full load to ¼load
 3. maximum total power from all outputs is limited to 25/30W but no output should be allowed to exceed its maximum current
 4. minmum current on each output is required to maintain specified regulation

