

6E Series

25-30W DC-DC Converters

Features

- 30W Isolation output
- 4:1 Input Range
- Six-sided Shield
- Remote On/Off Control
- Efficiency To 84%
- 200KHz switching frequency

Model Number	Input Voltage	Output Voltage	Output Current	Input Current		% Efficiency	Case
				No Load	Full Load		
6E-01		5 VDC	5000 mA	20 mA	1350 mA	77	
6E-02		12 VDC	2500 mA	20 mA	1560 mA	80	
6E-03		15 VDC	2000 mA	20 mA	1560 mA	80	
6E-04	9-36 VDC	±12 VDC	±1250 mA	25 mA	1560 mA	80	E
6E-05		±15 VDC	±1000 mA	25 mA	1560 mA	80	
6E-06		5/±12 VDC	3000/±625 mA	25 mA	1650 mA	76	
6E-07		5/±15 VDC	3000/±500 mA	25 mA	1650 mA	76	
6E-08		+5/+12/-5 VDC	3000/600/1000 mA	25 mA	1450 mA	78	
6E-11		5 VDC	5000 mA	15 mA	670 mA	78	
6E-12		12 VDC	2500 mA	15 mA	770 mA	81	
6E-13		15 VDC	2000 mA	15 mA	770 mA	81	
6E-14	18-72 VDC	±12 VDC	±1250 mA	20 mA	750 mA	84	E
6E-15		±15 VDC	±1000 mA	20 mA	750 mA	84	
6E-16		5/±12 VDC	3000/±625 mA	20 mA	790 mA	79	
6E-17		5/±15 VDC	3000/±500 mA	20 mA	780 mA	80	
6E-18		+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.....	24V.....	9-36V
	48V.....	18-72V
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.....	+/- 5.0 % 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.
Operating Temperature Range.....	-25° C ~ +71° C

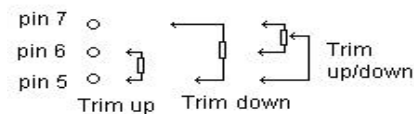
Outline Information and Pin-out

Pin Connection			
Pin	Single	Dual	Triple
1	+Input	+Input	+Input
2	-Input	-Input	-Input
3	+Sense	+Output	+Output
4	Trim	Common	Common
5	-Sense	-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 (E _{in} 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.



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	0.5	3.0
3 & 5	+12 or -12	0.1	0.625
3 & 5	+15 or -15	0.1	0.5
3 & 5	+12 or -5	0.1/0.1	0.6/0.1

- 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 30W but no output should be allowed to exceed its maximum current
 4. minmum current on each output is required to maintain specified regulation

