

20 Watts DIP Type Wide Input DC - DC Converter



FEATURES

- ◆ 20W Isolated Output
- ◆ Continuous Short Circuit Protection
- ◆ Remote on/off Control
- ◆ Meets EN55022 Class A, Conducted

SPECIFICATIONS

Input Voltage Range.....24V:9-36V/ 48V:18-72V
 Input Filter.....Pi Type
 Input Surge Range.....24V:50Vdcmax./ 48V:100Vdcmax.
 Positive Logic Remote ON/OFF Control.....See Note 3
 Voltage Accuracy.....Single Output: ± 1.0%max
 Dual +Output: 1.0%max / Dual - Output: ± 2.0%max
 Voltage Bal.,Dual Output at Full Load.....± 1.0%max
 Temperature Coefficient.....± 0.02%/°C
 Ripple & Noise,20MHz BW.....20mVRMS, max./75mVp-pmax.
 Output Voltage Trim Range.....± 10%
 Short Circuit Protection.....Continuous
 Line Regulation(see note1).....Single/Dual.....± 0.5% max.
 Load Regulation(see note2).....Single/Dual.....± 0.5%max.
 Start up time.....270msTyp.
 External Trim Adjust Range.....± 10.0%
 Transient Response.....Single 25% step load change < 500 μsec
 Dual FL-1/2L 1% Error Band < 500μsec
 Isolation Resistance.....10⁸ Ω min.
 Isolation Capacitance.....1000pFTyp.
 Isolation Voltage.....(Input/Output).....1500 VDC min.
 Switching Frequency.....300KHz, Typical
 Operating Ambient Temperature-25°C to +71°C
 De-Rating,Above 60°C.....Linearly to zeropowerat 100°C
 Storage Temperature Range.....-55°C to +105°C
 Humidity.....95% RH max. Non condensing
 EMI/RFI.....Six Sided Continuous Shield
 Case Temperature.....100°C Max
 Case Material...Black coated copper with non-conductive base
 Dimension.....2.0x1.6x0.45 inches (50.8x40.6 x 11.4mm)
 Weight..... 53g

All Specifications are Typical at Nominal Line, full Load and 25°C. Unless Otherwise Noted.

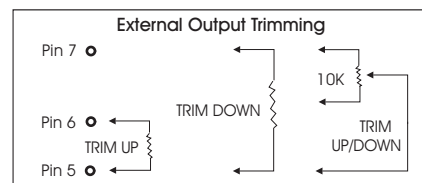
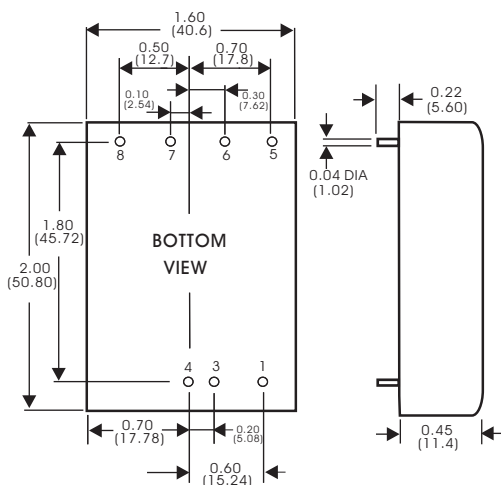
Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	EFF. % (Min.)
E20-40	9~36	3.3	4000	78
E20-41	9~36	5	4000	81
E20-42	9~36	12	1670	83
E20-43	9~36	15	1330	83
E20-44	9~36	± 5	± 2000	83
E20-45	9~36	± 12	± 833	83
E20-46	9~36	± 15	± 666	83
E20-50	18~72	3.3	4000	78
E20-51	18~72	5	4000	82
E20-52	18~72	12	1670	84
E20-53	18~72	15	1330	84
E20-54	18~72	± 5	± 2000	84
E20-55	18~72	± 12	± 833	84
E20-56	18~72	± 15	± 666	84

Note:

1. Measured from high line to low line.
2. Measured from full load to 1/4 load.
3. Remote On/Off Control:

Logic Compatibility: CMOS or Open Collector TTL
 EC-ON: > +5.5VDC to 75VDC or Open Circuit/ EC-OFF: < 1.8VDC
 Control Common: Referenced to Input Minus

MECHANICAL DRAWING (Unit: inch(mm))



Pin Connections			
Pin#	Single	Pin#	Dual
1	On/Off Control	1	On/Off Control
3	-Vi	3	-Vi
4	+Vi	4	+Vi
5	Trim	5	Trim
6	-Vo	6	-Vo
7	+Vo	7	Com.
8	NP	8	+Vo