

5-6 Watts DIP-24 Package 6000 VDC I/O Isolation DC - DC Converter

FEATURES

- ◆ Regulated Outputs / Efficiency up to 85%
- ◆ Continuous Short Circuit Protection
- ◆ 5uA Leakage Current
- ◆ Meet EMI EN55032 Class A
- ◆ Reinforced insulation rated for working voltage 300VAC

SPECIFICATIONS

Under Voltage Protection.....24Vin power up.....8.8V typ.
 24Vin power down.....8.0V typ.
 48Vin power up.....17V typ.
 48Vin power down.....16V typ.

Leakage Current.....5uA max.

Input Filter.....Pi Type

Input Surge (100ms max.).....24Vin.....50V max.
 48Vin.....100V max.

Voltage Accuracy.....± 1.5% max.

Voltage Balance(Dual).....± 2.0% max.

Temperature Coefficient.....± 0.05%/°C

Ripple & Noise (20MHz BW).....[5V].....100mVp-p max.
 (12/15V).....1%Vp-p max.

Line Regulation.....± 0.5% max.

Load Regulation, Single.....± 0.5% max. / Dual.....± 1.0% max.

Short Circuit Protection.....Continuous

Isolation Voltage.....6000VDC min.

Isolation Resistance.....10⁹ ohm min.

Isolation Capacitance.....40pF typ.

Reinforced Insulation.....Creepage Distances.....8mm min.
 Air Clearances.....8mm min.

Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	No Load Input Current	EFF. Typ. %	Capacitor Load Max.
E05-41P6	9-36	5	1000	10mA	80	1000µF
E05-42P6	9-36	12	500	10mA	85	500µF
E05-45P6	9-36	±12	±250	15mA	84	250µF
E05-46P6	9-36	±15	±200	15mA	84	200µF
E05-51P6	18-72	5	1000	5mA	80	1000µF
E05-52P6	18-72	12	500	5mA	84	500µF
E05-55P6	18-72	±12	±250	8mA	83	250µF
E05-56P6	18-72	±15	±200	8mA	84	200µF

Note:
 Nominal input voltage 24 or 48VDC
 Efficiency is measured at nominal input voltage

SPECIFICATIONS

Switching Frequency.....100KHz min.

Operating Temperature Range.....-40°C To +71°C

Storage Temperature Range.....-40°C To +100°C

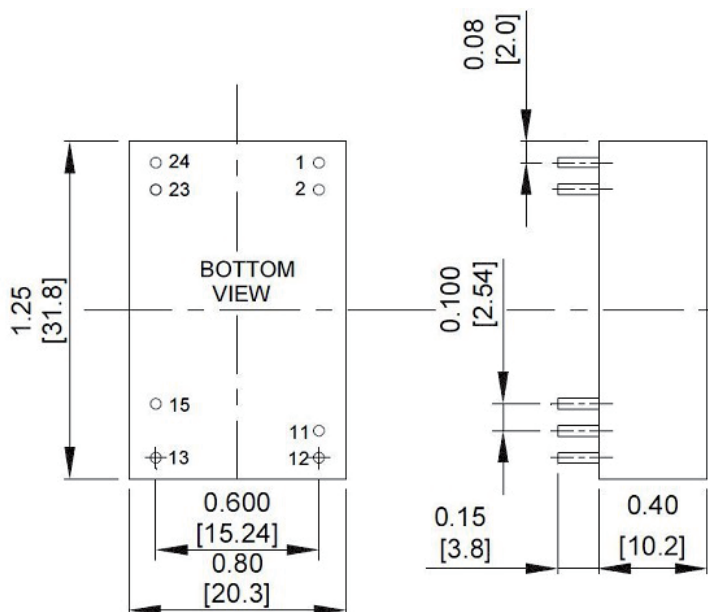
EMI.....Conductive EMI meet EN55032 Class A
 MTBF.....(MIL-HDBK-217-F, GB,25°C, Full Load).....1430K hrs typ.

Standard Case Material.....Non-Conductive Black Plastic

Dimension...(Standard).....1.25x0.8x0.4inches/31.8x20.3x10.2mm

Weight.....13.1g

MECHANICAL DRAWING (Unit: inch(mm))



PIN CONNECTION		
Pin	Single Output	Dual Output
1	+V Input	+V Input
2	+V Input	+V Input
11	NP	Common
12	-V Output	NP
13	+V Output	-V Output
15	NP	+V Output
23	-V Input	-V Input
24	-V Input	-V Input

Note: pin size is 0.02±0.002 inch (0.5±0.05mm)DIA
 All Dimensions in Inches [mm]
 Tolerance : Inches: x.xx = ±0.02, x.xxx = ±0.010
 Minimeters: x.x = ±0.5, x.xx = ±0.25