



# KPW-DCT48-D



## Isolated DC to 48V 100W Converter

### Key Features:

- Isolated DC Output
- Industrial terminal block connectors for DC input and output interface
- Efficiency to 82.5%
- Protections: Under voltage lockout/Over current/Short circuit/Thermal shutdown
- Internal power module with UL60950-1 safety approval
- Wide range of operating temperature -30°C ~ 70°C

### Applications:

- External DC24V to DC48V power supply for PoE switches

### Specifications:

DC Input voltage	+12 ~ +30VDC
DC Output voltage	+48V (+/-1.5%)
DC Output current	2A max.
Efficiency	82.5% (Typ.)
Input connectors	Terminal block 2P: Vin+/Vin-
Output connectors	Terminal block 6P: 3 Vout+/Vout- pairs
LEDs	DC IN, DC OUT
Isolation	DC IN vs. DC OUT: 1.5KVDC DC IN vs. Frame : 1.5KVDC DC OUT vs. Frame : 1.5KVDC
Protection	Under voltage lockout: DC IN < 8VDC Short circuit Over current: 110% ~ 140% Thermal shutdown: Internal Power Case Temp. 105°C (Typ.)
Environment	Operating Temperature: -30°C ~ 70°C Storage Temperature: -40°C ~ 85°C Relative Humidity: 10% ~ 90% non-condensing
Fan Cooling	Yes
Mounting Support	DIN-Rail, Panel
Dimensions	42 x 106 x 140 mm (WxDxH)
Internal Power Module	UL60950-1 approved

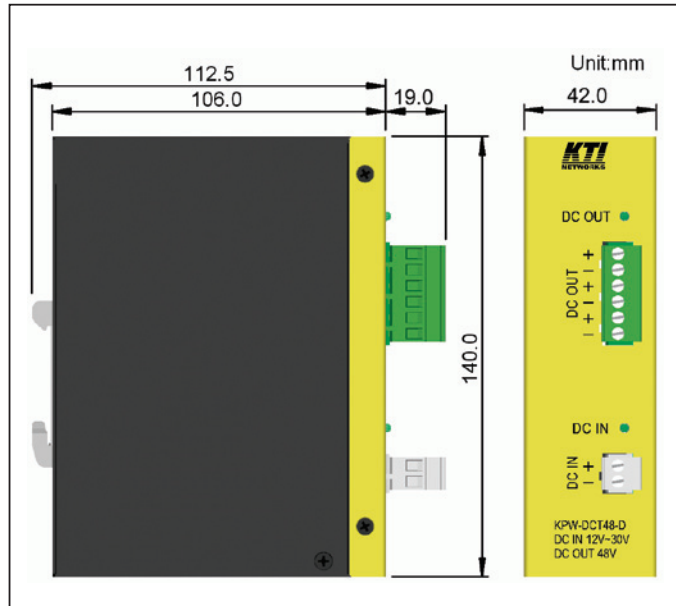


**EMI EMS Safety Environmental Tests:**

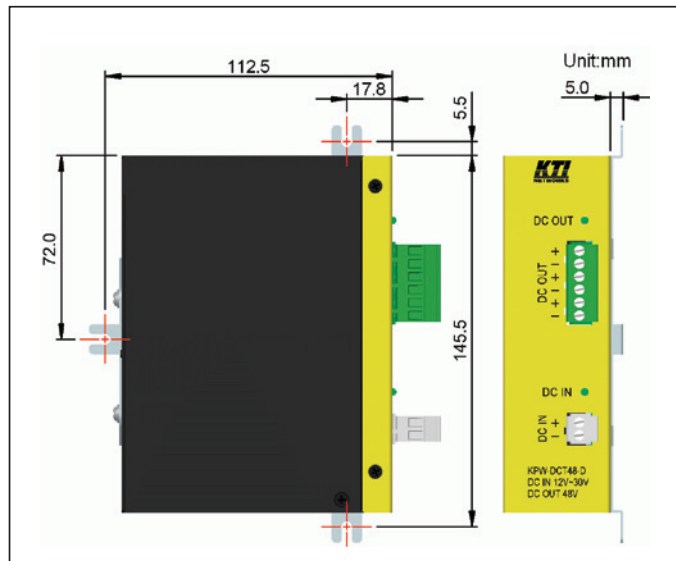
Test	Standard	Specifications
FCC/EMI	FCC Rule Part 15	Class A
CE/EMC/EMI	EN 61000-6-4	Class A
VCCI	VCCI V-3 VCCI V-4	Class A
CE/EMC/EMS	EN 61000-6-2	
ESD Test	IEC 61000-4-2	Contact: +/-4k Air: +/-8k
RS Test	IEC 61000-4-3	Strength: 10V/m
EFT/BURST	IEC 61000-4-4	+/-2k
Surge Immunity	IEC 61000-4-5	+/-0.5k
CS Test	IEC 61000-4-6	Level 3
Magnetic Field Imm.	IEC 61000-4-8	50/60Hz 30A/m
Vibration test	IEC 60068-2-64 Fh	10-200Hz, 0.1g/1Hz 200-500Hz, 0.03g/1Hz
Shock test	IEC 60068-2-27 Ea	50G

Approval

FCC Class A, CE mark Class A, VCCI Class A  
IEC 60068-2-64 Vibration, IEC 60068-2-27 Shock 50G test



DIN-Rail Dimension



Panel Dimension



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