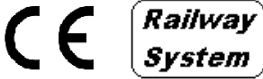




**600 Watt, 43 – 160VDC Wide Input
DC/DC Converters
Series DV600F4-110-CHAL (Chassis Mount)**



Features

- 600 Watt Isolated Output
- Regulated Outputs
- 4 : 1 Wide Input Range
- Fixed Switching Frequency
- Remote ON/OFF
- Shock & Vibration: EN50155 (EN61373)
- Safety Meets UL/EN/IEC60950-1
- Meets UL60950-1 2nd (Basic Insulation)
- Fire & Smoke Meets EN45545-2
- Efficiency to 88%
- Continuous Short Circuit Protection
- Over Temperature Protection
- Over Voltage / Current Protection
- Build-In EMI Filter
- EMC: EN50155:2007, Environmental and Characteristic
- Baseplate Cooled

MODEL NUMBER	INPUT VOLTAGE [VDC]	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT [A]	INPUT CURRENT NO LOAD [mA]	INPUT CURRENT FULL LOAD [A]	EFF. [%]	CAP. LOAD Max. [μ F]	CASE
DV600F4-110S12-CHAL-C	43 – 160	12	50	25	6,3	87	10000	Alu-Base
DV600F4-110S24-CHAL-C		24	25	25	6,2	88	10000	
DV600F4-110S28-CHAL-C		28	21,4	25	6,2	88	10000	
DV600F4-110S48-CHAL-C		48	12,5	25	6,2	88	1000	

NOTE:
Nominal Input Voltage 110VDC.

INPUT SPECIFICATIONS:

Input Voltage Range.....	110V	43-160Vdc
Input Surge Voltage (100ms max.)	110V	180Vdc max.
Under Voltage Lockout	110Vin power up	42Vdc
	110Vin power down	40Vdc
Remote ON/OFF		see note 4

OUTPUT SPECIFICATION:

Output Current Min.....		0 mA
Voltage Accuracy		±1,0%max.
Transient Response: 25% Step Load Change		<500µ sec.
Trim Adj. Range (By VR)		+10%
Ripple and Noise, 20 MHz BW	12V	60mV RMS / 120mV pk-pk max.
	24V	100mV RMS / 240mV pk-pk max.
	28V	100mV RMS / 280mV pk-pk max.
	48V	200mV RMS / 480mV pk-pk max.
Temperature Coefficient.....		±0,03%/°C max.
Short Circuit Protection.....		Continuous
Line Regulation (Note 1).....		±0,2% max.
Load Regulation (Note 2)		±2,0% max.
Over Voltage Protection trip Range, % Vo nom		115-140%
Current Limit.....		105-140% Nominal Output
Auxiliary Output Voltage/Current		10±3Vdc/20mA max.
Load Share Accuracy		±10% at 50% to 100% Full Load
Start up Time.....		160ms typ.

GENERAL SPECIFICATIONS:

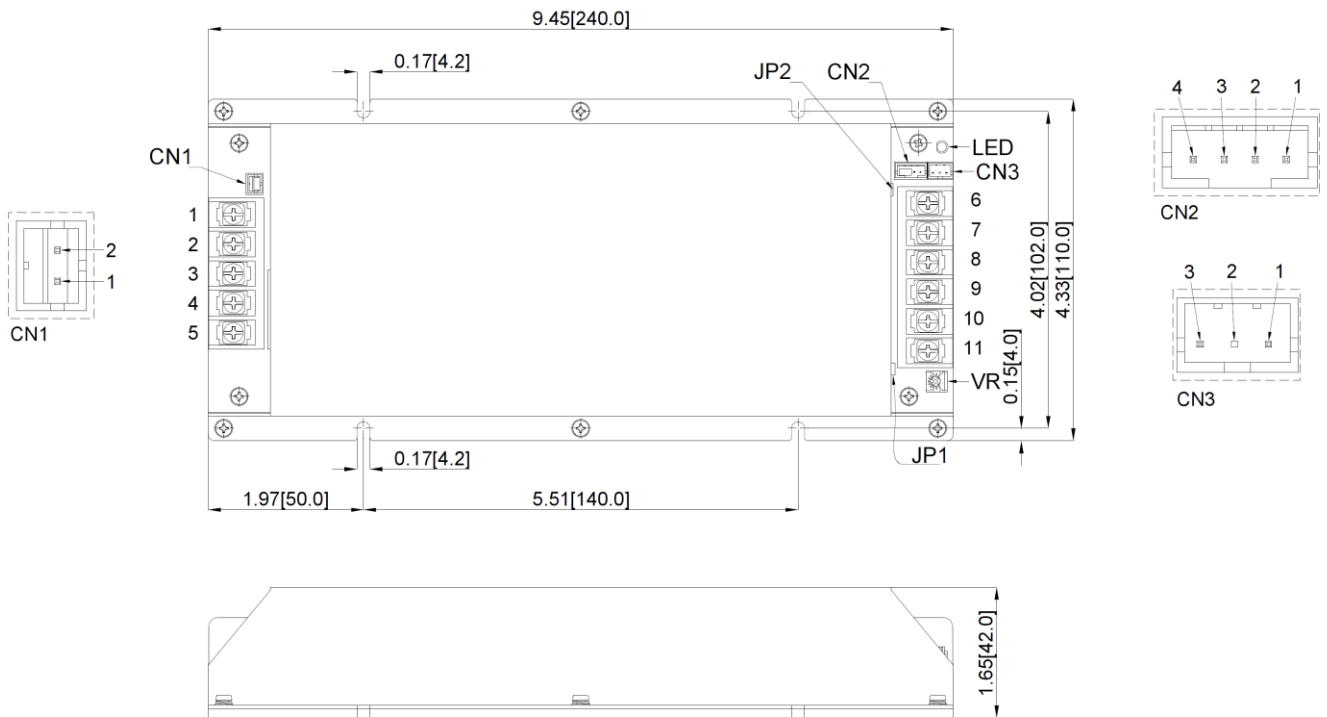
Efficiency.....		See Table
Isolation Voltage.....	Input/Output	2250 VDC min.
	Input/Case	2250 VDC min.
	Output/Case	1500 VDC min.
Isolation Resistance		10 ⁷ Ohm min.
Isolation Capacitance (DC Module)		4000pF typ.
Switching Frequency		250 KHz typ.
Operating Case Temperature Range.....		-40°C to +100°C
Storage Temperature Range		-40°C to +105°C
Thermal Shutdown, Case Temp (DC Module)		110°C typ.
Humidity		95% RH max. Non condensing
MTBF 25°C (MIL-HDBK-217F, GB, Full Load).....		280Khrs typ.
Safety.....		Meets UL60950-1 2 nd (Basic Insulation)
EMC		Meets EN50155 (EN50121-3-2:2007
	With External Output Filter	Meets EN50155 (EN50121-3-2:2015)
Shock/Vibration		Meet EN50155 (EN61373)
Environmental		Meet EN50155 (EN60068-2-1,2,30)
Dimensions		9.45x4.33x1.65 Inches (240.0x110.0x42.0mm)
Material		Aluminum
Weight.....		995g

NOTE:

1. Measured from high line to low line.
2. Measured from full load to zero load.
3. Output ripple and noise measured with 1µF ceramic capacitor across output.
4. Suffix "P" to the model number with positive logic remote on/off, standard model is negative logic.
5. Input connectors PIN1~5 use DINKLE DT-49-B01W-05 series or equivalent. Suitable electric wire: 22~12AWG (IEC 0.5~4mm²).
6. Output connectors PIN6~11 use DINKLE DT-49-B01W-06 series or equivalent. Suitable electric wire: 22~12AWG (IEC 0.5~4mm²).
7. Connector CN1 wafer with TAIWAN KING PIN TERMINAL 8822-02 series or equivalent.
8. Connector CN2 wafer with CHYAO SHIUNN TERMINAL JS-1001-04(K) series or equivalent.
9. Connector CN3 wafer with CHIA-SOON TERMINAL B3B-PH-K-S series or equivalent.
10. VR is used for Output Voltage Adjustment.
11. Refer to Application Note for Thermal Resistance and Derating Information's.
12. TVS is Included for Input Surge Voltage Protection.
13. Recommend an External Fuse for Input Reverse Polarity Protection (shunt diode is include inside).
14. All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted.

All Dimensions in Inches (mm)

Tolerance	Inches	x.xx±0.02	x.xxx±0.010
	Millimeters	x.x±0.5	x.xx±0.25



Terminal PIN CONNECTION	
Pin	Function
1	PE
2,3	-V Input
4,5	+V Input
6,7,8	-V Output
9,10,11	+Vout
JP1	Short +S&+Vo
JP2	Short -S&-Vo

CN1 (On/ff JP) PIN CONNECTION	
Pin	Function
1	-V Input
2	-On/Off

CN2 (Trim JP) PIN CONNECTION	
Pin	Function
1	-Sense
2	+Sense
3	Trim
4	Rt

CN3 (PC JP) PIN CONNECTION	
Pin	Function
1	AUX
2	IOG
3	PC