


Features :

- Built-in active PFC function, PF>0.95
- High efficiency 92% and low power dissipation
- Protections: SCP / OLP / OVP / OTP
- Cooling by free air convection
- Two peak load mode select by user.
- Can be installed on DIN rail TS-35 / 7.5 or 15
- Built-in DC OK Relay contact
- Built-in Remote ON / OFF function
- 100% full load burn-in test
- 150% peak load capability
- 3 years warranty



	MODEL	DV-240-24	DV-240-48
OUTPUT	DC Voltage Range	24V	48V
	Rated Current	10A	5A
	Current Range	0 ~ 10A	0 ~ 5A
	Rated Power	240W	240W
	Peak Current	15A	7.5A
	Peak Power Note.6	360W (3sec.) Two peak load mode select by user.	
	Ripple & Noise (max.) Note.2	150 mVp-p	300 mVp-p
	Voltage Adjustment Range	-2% ~ +8%	-2% ~ +8%
	Voltage Tolerance Note.3	±1.0%	±1.0%
	Line Regulation	±0.5%	±0.5%
	Load Regulation	±1.0%	±1.0%
	Setup, Rise Time	700ms, 30ms/230VAC /115VAC at full load	
	Hold Time (Typ.)	20ms / 230VAC 20ms / 115VAC at full load	
INPUT	Voltage Range	88V ~ 264VAC 124 ~ 373VDC	
	Frequency Range	47 ~ 63Hz	
	Power Factor(Typ.)	0.96 / 230VAC / 115VAC at full load	
	Efficiency (Typ.)	91%	92%
	AC Current (Typ.)	2.6A / 115VAC	1.3A / 230VAC
	Inrush Current (Typ.)	33A / 115VAC	65A / 230VAC
Leakage Current	< 1mA / 240VAC		
Protection	Over Load	>150% rated power or short circuit is constant current limiting, if o/p drop to 40% rating output voltage then shutdown and auto-recover 5 time, if fault condition not remove in this 5 time, the system will be shutdown and re-power on to recover.	
	Over Voltage	28 ~ 33V	56 ~ 65V
	Over Temperature	95±5° C (TSW : detect on heatsink of power diode) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down	
Protection	DC OK REALY CONTACT RATINGS (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load	
Environment	Working Temp. Note.5	-25 ~ +70°C (Refer to output load de-rating curve)	
	Working Humidity	20 ~ 95% RH non-condensing	
	Storage Temp., Humidity	-40 ~ +85°C 10 ~95% R.H	
	Temp.Coefficient	±0.03%/°C (0 ~ 50°C)	
Safety & EMC Note.4	Vibration	Component : 10 ~ 500Hz, 2G 10min/1cycle, 60 min each along X,Y,Z axes; Mounting: Compliance to IEC60068-2-6	
	Safety Standards	UL508 / TUV EN60950-1	
	Withstand Voltage	I/P - O/P: 4242VDC I/P - FG: 2121VDC O/P-FG : 707VDC O/P-DC OK: 707VDC	
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH	
	EMI Conduction & Radiation	EN55022: 2006 Class B	
Others	Harmonic Current	EN61000-3-2: 2006 Class A, EN61000-3-3: 1995+A1: 2001+A2: 2005	
	EMS Immunity	EN61204-3: 2000, EN55024: 1998+A1: 2001+A2: 2003 light industry level, criteria A	
	MTBF	xxxK HRS Compliance: MIL-HDBK-217F(25°C)	
Note	Dimension (LxWxH)(mm)	65.8x125x117.7	
	Packing	0.9kg;12Pcs/12.8kg	
		1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power.In case the adjacent device is a heat source, 15mm clearance is recommended. 6. 3 seconds or 20% duty cycle max. and the average output power should not exceed the rate power. 7. Derating may be needed under low input voltage. Please check the derating curve for more details.	



Mechanical Specification

Unit : mm

Terminal Pin No. Assignment (TB1)

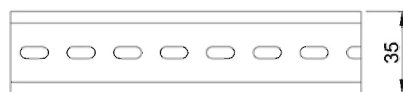
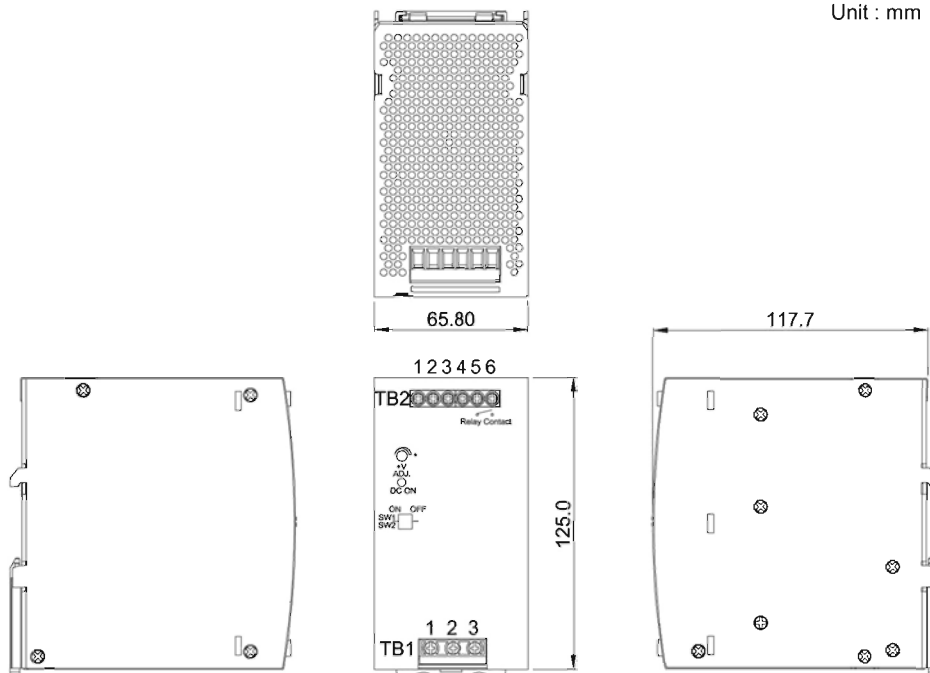
Pin NO.	Assignment
1	FG ⊕
2	AC/L
3	AC/N

Terminal Pin No. Assignment (TB2)

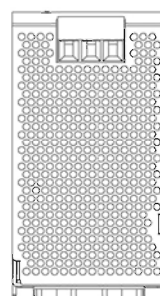
Pin NO.	Assignment
1	DC+
2	DC-
3	INH+
4	INH-
5,6	Relay Contact

Switch No. Assignment

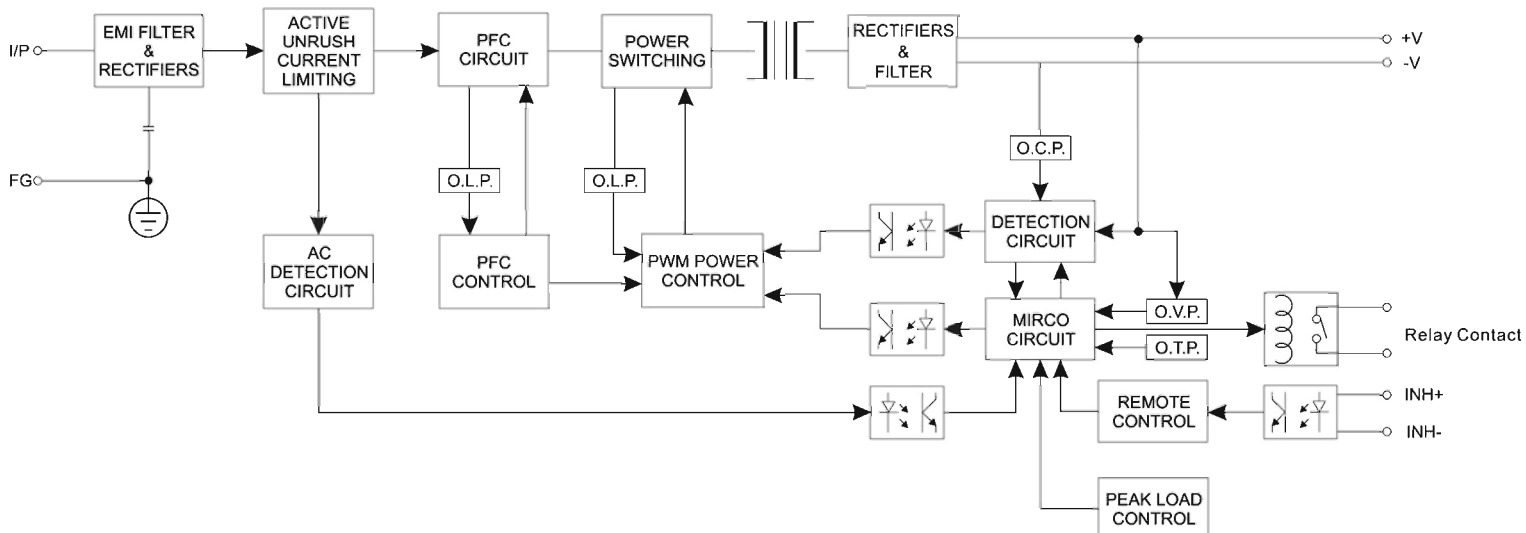
SW NO.	Assignment
SW1	PEAK LOAD SETTING
SW2	REMOTE ON/OFF SETTING



Admissible DIN-RAIL:
TS35/7.5 OR TS35/15



Block Diagram

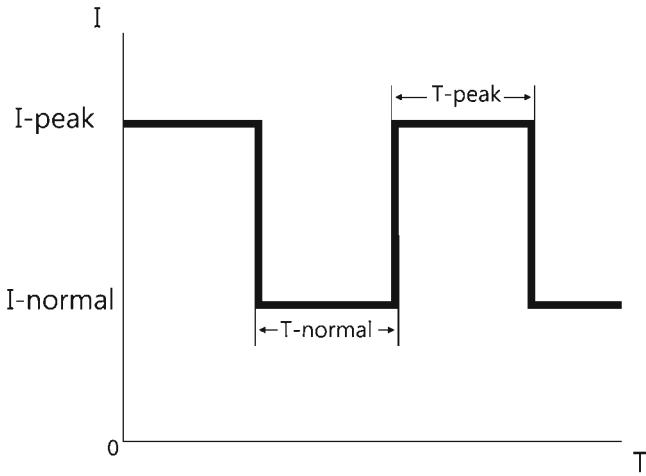


DC OK Relay Contact

Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open	When the output voltage drop below 45% output voltage.
Contact Ratings(max.)	30V/1A resistive load

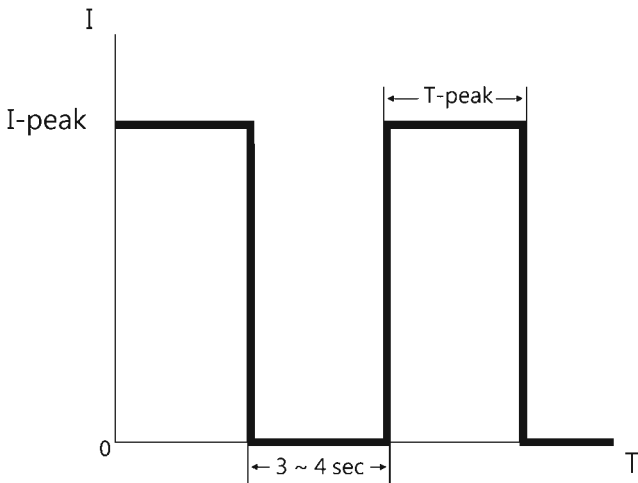


■ Peak Loading SW1 ON (Mode1) Default setting

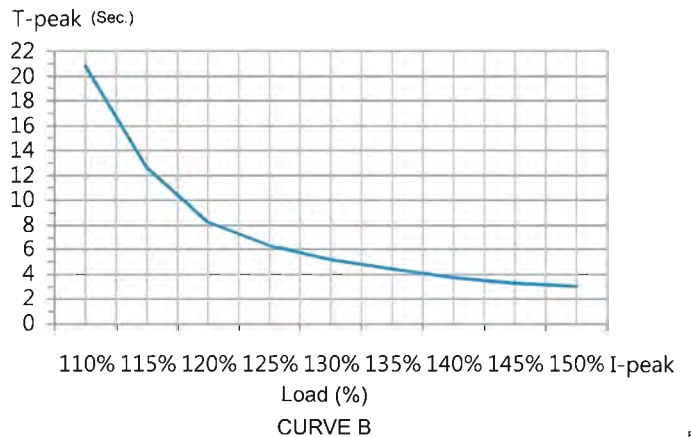
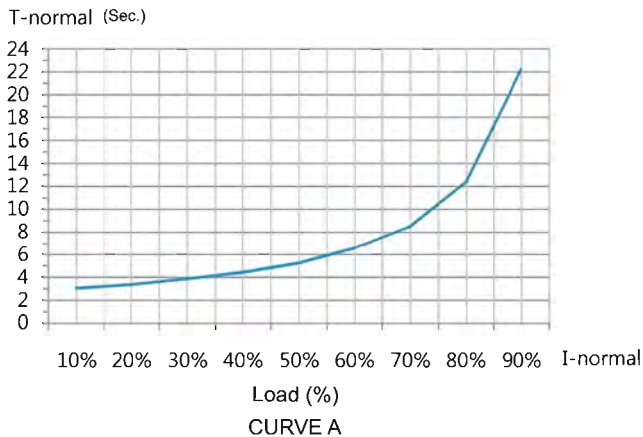


T-peak presents while the unit is working within 110%~150% Rating output power. See curve " B " for the variation in T-peak btw output current and holdup time. If T-peak is more than the time setting in curve "B", the output current will drop to the constant current limited (I-normal) that is 105% rating power, meanwhile, I- normal and T-normal will be presenting. See curve "A" for the timing back to I-Peak of T-normal and this Mode can use for easy 2-stage battery charger.

■ Peak Loading SW1 OFF (Mode2)



T-peak presents while the unit is working within 110%~150% Rating output power. See curve " B " for the variation in T-peak btw output current and holdup time. If T-peak is more than the time setting in curve "B", the output voltage will be shut down for 3~4 sec, then auto-recovery.

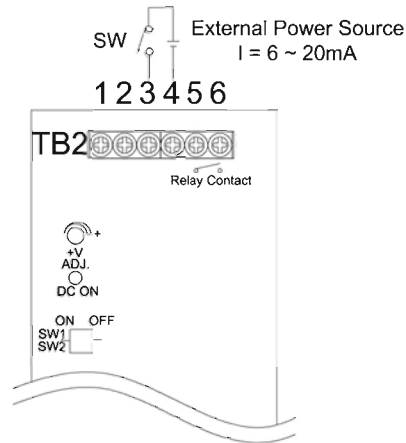


Remote ON / OFF

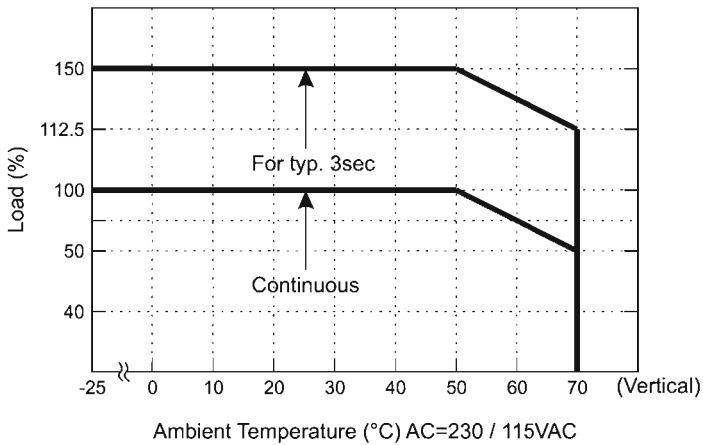
The PSU can be turned ON/OFF by using the "Remote Control" function.

SW2	INH+(3 PIN)/ INH-(4 PIN)	Output Status
OFF	SW ON (>2.5V)	ENABLE
OFF	SW OFF (<0.8V)	DISABLE
ON	SW ON (>2.5V)	DISABLE
ON	SW OFF (<0.8V)	ENABLE

(Default Setting)



De-rating Curve



Output derating VS input voltage

