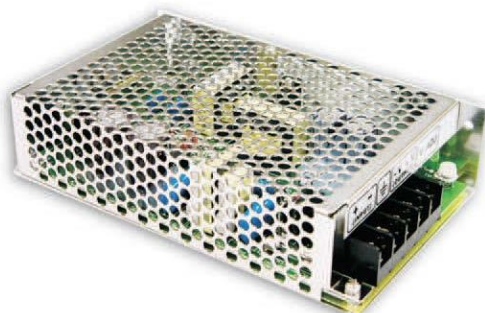


50W Single Output DC/DC Converter

AS|50 series



- **Ampio range di tensione in ingresso**
(2:1 Wide input range)
- **Protezione contro corto circuito, sovraccarico e sovratensione**
(Protections: Short circuit / Overload / Over voltage)
- **Isolamento Galvanico tra Ingresso / Uscita / Involucro**
(Input / Output case Insulation)
- **Filtro EMI Integrato e basso valore di ripple**
Built-in EMI Filter, low ripple noise
- **Raffreddamento a ricircolo d'aria**
Cooling by free air convection

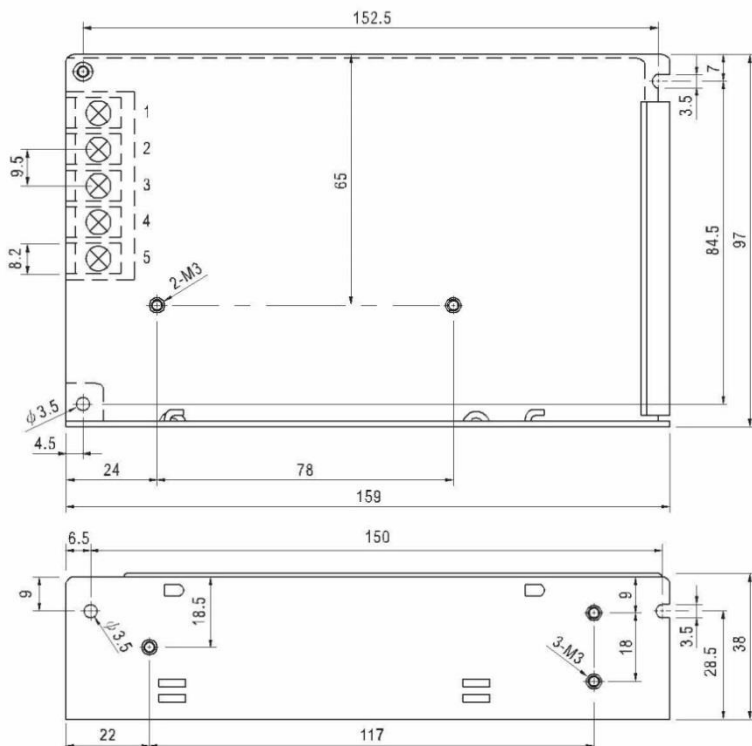
SPECIFICATION



MODEL		ASI50A-5	ASI50B-5	ASI50C-5	ASI50A-12	ASI50B-12	ASI50C-12	ASI50A-24	ASI50B-24	ASI50C-24
OUTPUT	DC VOLTAGE	5V			12V			24V		
	RATED CURRENT	10A			4.2A			2.1A		
	CURRENT RANGE	0 ~ 10A			0 ~ 4.2A			0 ~ 2.1A		
	RATED POWER	50W			50.4W			50.4W		
	RIPPLE & NOISE (max.) _{n.2}	100mVp-p			120mVp-p			150mVp-p		
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5VDC			11 ~ 16VDC			23 ~ 30VDC		
	VOLTAGE TOLERANCE _{n.3}	± 2.0%			± 1.0%			± 1.0%		
	LINE REGULATION	± 0.5%			± 0.3%			± 0.2%		
	LOAD REGULATION	±0.5%			±0.3%			±0.2%		
INPUT	VOLTAGE RANGE	9.2 ~ 18VDC	19 ~ 36VDC	36 ~ 72VDC	9.2 ~ 18VDC	19 ~ 36VDC	36 ~ 72VDC	9.2 ~ 18VDC	19 ~ 36VDC	36 ~ 72VDC
	EFFICIENCY (Typ.)	70%	73%	76%	72%	75%	78%	74%	80%	83%
	DC CURRENT (Typ.)	7A/12V	3A/24V	1.5A/48V	7A/12V	3A/24V	1.5A/48V	7A/12V	3A/24V	1.5A/48V
PROTECTION	OVERLOAD	105 ~ 150% rated output power								
		Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	5.75 ~ 6.75V/10% load			16.8 ~ 20V/10% load			31.5 ~ 37.5V/10% load		
		Protection type : Hiccup mode, recovers automatically after fault condition is removed								
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to output load derating curve)								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP. / HUM.	-20 ~ +85°C, 10 ~ 95% RH								
SAFETY & EMC (n.3)	SAFETY STANDARDS	Design refer to LVD								
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC								
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B								
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,6,8; EN50204, light industry level, criteria A								
OTHERS	MTBF	365.6K hrs min.(ASI50A)			357.5K hrs min.(ASI50B)			368.5K Hrs min.(ASI50C)		
	DIMENSION	159*97*38mm (L*W*H)								
	WEIGHT	0.48 Kg.								
NOTE	1. All parameters NOT specially mentioned are measured at 12,24,48,VDC 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.									

■ Mechanical Specification

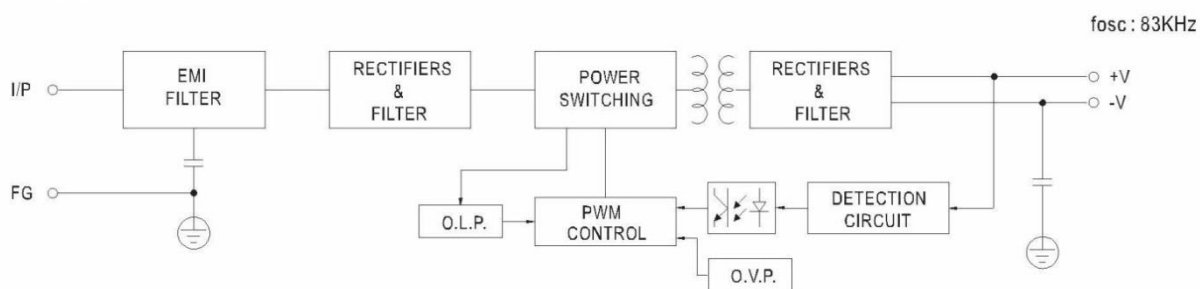
Case No. 901 Unit:mm



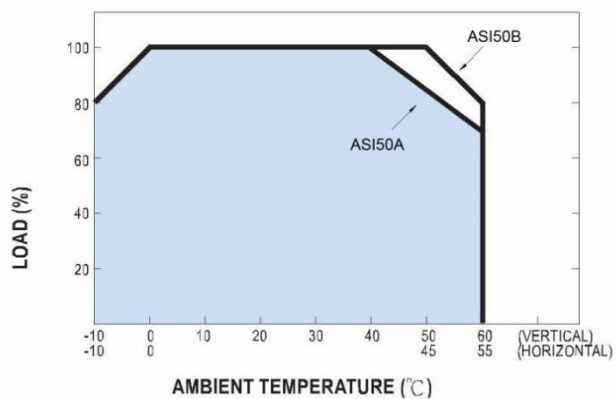
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	DC INPUT V+	4	DC OUTPUT -V
2	DC INPUT V-	5	DC OUTPUT +V
3	FG $\perp$		

■ Block Diagram



■ Derating Curve



■ Static Characteristics

