



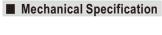
## ■ Features :

- \*2:1 wide input range
- \*Protections: Short circuit / Overload / Over voltage/Reverse polarity
- \*1500VAC I/O isolation
- \*Cooling by free air convection
- \*Built-in EMI filter, low ripple noise
- '100% full load burn-in test
- ·Low cost
- \*High reliability
- \*2 year warranty

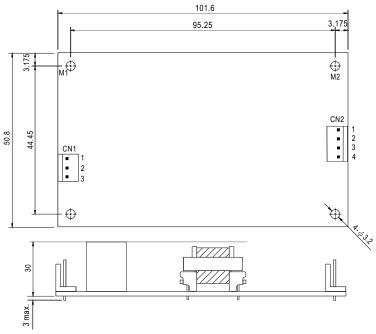
## FRI CB CE CK

MODEL		PSD-30A-5	PSD-30B-5	PSD-30C-5	PSD-30A-12	PSD-30B-12	PSD-30C-12	PSD-30A-24	PSD-30B-24	PSD-30C-24	
ОИТРИТ	DC VOLTAGE	5V			12V			24V			
	RATED CURRENT	5A		2.5A		1.25A					
	CURRENT RANGE	0 ~ 5A			0 ~ 2.5A		0 ~ 1.25A				
	RATED POWER	25W			30W		30W				
	RIPPLE & NOISE (max.) Note.2	100mVp-p			120mVp-p		150mVp-p				
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5VDC			11 ~ 13.5VDC			22 ~ 26VDC			
	VOLTAGE TOLERANCE Note.3	±2.0%			±1.0%			±1.0%			
	LINE REGULATION	±1.0%			±1.0%		±1.0%				
	LOAD REGULATION	±1.0%			±1.0%		±1.0%				
	SETUP, RISE, HOLD UP TIME	2s, 50ms, at full load									
INPUT	VOLTAGE RANGE	A:9 ~ 18VDC B:18 ~ 36VDC C:36 ~ 72VDC									
	EFFICIENCY (Typ.)	77%	79%	80%	77%	80%	82%	78%	83%	83%	
	DC CURRENT	4.5A/12V	-	1	2.5A/24V			1.1A/48V		'	
	OVERLOAD	105 ~ 150% i	ated output po	wer							
		Protection type: Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION	OVERVOLTAGE	6 ~ 7.5V			14 ~ 16.5V	14 ~ 16.5V			27 ~ 32.5V		
	OVER VOLTAGE	Protection ty	rotection type : Hiccup mode, recovers automatically after fault condition is removed								
	REVERSE POLARITY	By internal fuse open									
	WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes									
	SAFETY STANDARDS	EAC TP TC 004 approved, IEC 62368-1 CB approved by Dekra									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:2.0KVAC O/P-FG:0.5KVAC									
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC									
(Note 4)	<b>EMI CONDUCTION &amp; RADIATION</b>										
	EMS IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,6,8; BS EN/ENV50204, BS EN/EN 55024, light industry level, criteria A, EAC TP TC 020									
	MTBF	902.4K hrs min. MIL-HDBK-217F(25°C)									
OTHERS	DIMENSION	101.6*50.8*30mm (L*W*H)									
	PACKING	0.15kg; 72pcs/10.8kg/0.82CUFT									
NOTE	1. All parameters NOT specially mentioned are measured at 12,24,48VDC input, rated load and 25°C 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. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft (As available on http://www.meanwell.com)  **Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx  **The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) (As available on http://www.meanwell.com/serviceDisclaimer.aspx										





Unit:mm



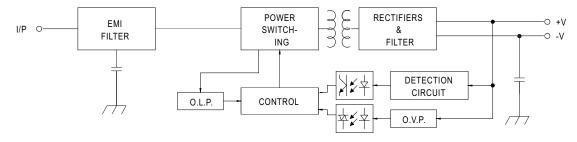
DC Input Connector (CN1): JST B3P-VH-B or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	DC-	JST VHR	JST SVH-21T-P1.1
3	DC+	or equivalent	or equivalent
2	NC	,	

DC Output Connector (CN2): JST B4P-VH-B or equivalent

Pin I	No.	Assignment	Mating Housing	Terminal	
1,2	2	+V	JST VHR	JST SVH-21T-P1.1	
3,4	4	-V	or equivalent	or equivalent	

## **■** Block Diagram



## ■ Derating Curve

