

Before you turn on your security system, you have to turn your power up and *FingerTec* recommends the CE-certified PW12V Switch Mode Power Supply, the most essential and reliable item to power up your security system. This power supply helps to secure your premises and ensure your access control system is always on safe and/or power on mode.

PW12V's switching power supply has a universal power input range (from AC110 to 240) to ensure suitability for all power sources around the world. Switching between AC current to a more stable DC power is also hassle-free. To achieve zero down time and power failure, PW12V comes with a second power output port that charges your 12VDC rechargeable backup battery while the battery powers up the access control system during an emergency.

With its lightweight, compact size and extra short circuit & overload protection feature, PW12V is perfectly ideal to power up *FingerTec H3i*, *s-Kadex* and *Ingressus controllers*.

BENEFITS

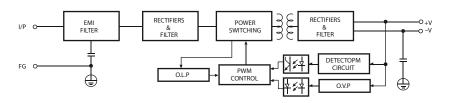
- · Universal power input for global compatibility
- Integration protection to prolong life span
- Sufficient power output to charge 12VDC rechargeable backup battery
- Highly efficient power conversion and low operation temperature
 - 100% full load burn-in test to prove its reliability
 - · Lightweight, compact size for easy installations
 - Maintain switching frequency at 45kHz
 - · CE-certified to ensure quality and safety of use





LAYOUT PLAN

Circuit Diagram: The circuit design of PW12V



PW12V with Power Source and Load

	C110/240V		DC12V Rechargeable Battery	
0 0 0 0 0 0 0 0	H3i S-Kadex	OB Ingressus I	OR BLE-2	
		SPECIFICATIONS		
	OUTPUT NUMBER	OUTPUT TO FINGERTEC DEVICES	OUTPUT TO RECHARGEABLE BATTERY	
ουτρυτ	DC VOLTAGE	13.8V	13.4V	
	RATED CURRENT	3.5A	0.23A	
	CURRENT RANGE	0 ~ 4A	N/A	
	RIPPLE & NOISE (max.) Note.2	100mVp-p	N/A	
	VOLTAGE ADJ. RANGE		2~14.5V	
	VOLTAGE TOLERANCE Note.3	+/- 1.0%	N/A	
	LINE REGULATION	+/- 0.5%	N/A	
	LOAD REGULATION	+/- 0.5%	N/A	
	SETUP, RISE TIME	800ms, 50ms/230VA	C 1600ms, 50ms/115VAC at full load	
	HOLD UP TIME (Typ.)	80ms/230VAC 16ms/115VAC at full load		
NPUT	VOLTAGE RANGE	88 ~ 264VAC 124 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	EFFICIENCY (Typ.)	71%		
	AC CURRENT (Typ.)	1.6A/115VAC	1A/230VAC	
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC	40A/230VAC	
	LEAKAGE CURRENT	<1mA	/ 240VAC	
PROTECTION	OVERLOAD	105 ~ 150% rated output power		
		Protection type : AC Charging Mode : Hiccup mode, recovers automatically after faulty condition is removed UPS Mode : Protected by internal fuse		
	OVER VOLTAGE	CH1:15.87 ~ 18.63V		
			/pe : Hiccup mode, recovers automatically after faulty	
		condition is removed		
	LOW BATTERY	9.5 ~ 11V		
FUNCTION	DC ALARM SIGNAL	AC fail CN1 PIN2		
	(OPTIONAL)	Battery low under charge voltage 82.5% 2% CN1 PIN1		
		Normal 0.8V max. Abnormal 5V 0.5V		
ENVIRONMENT		-10 ~ +60C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-20 ~ +85C , 10 ~ 95% RH		
	TEMP. COEFFICIENT	+/- 0.03%/C (0~50) on CH1 output		
		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC		
			I/P-O/P.3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25C / 70% RH	
(Note 4)		1/P-O/P, 1/P-FG, O/P-FG:100M Ohms / 500VDC / 25C / /0% RH Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3		
OTHERS	EMC EMISSION EMC IMMUNITY			
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A 304.3K hrs min. MIL-HDBK-217F (25C)		
	DIMENSION	304.3K nrs min. MIL-HDBK-217F (25C) 159*97*38mm (L*W*H)		
	PACKING			
		0.5Kg; 24pcs/12.6Kg/0.75CUFT		

NOTE: 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12² 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 for 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 and 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 and the power supplies.

EMC directives. For guidance on how to perform these EMC tests, please refer to .EMI testing of component power supplies..



Authorized Reseller: