

# Datasheet

## SNP-P30-S

### Skynet

Our company network supports you worldwide with offices in Germany, Austria, Switzerland, Great Britain and the USA. For more information please contact:

**FORTEC Elektronik AG**

Hauptniederlassung  
Lechwiesenstr. 9  
86899 Landsberg am Lech

Telefon: +49 (0) 8191 91172-0

Telefax: +49 (0) 8191 21770

E-Mail: [sales@fortecag.de](mailto:sales@fortecag.de)

Internet: [www.fortecag.de](http://www.fortecag.de)

**FORTEC Elektronik AG**

Büro Nord  
Am Hasenkamp 36  
22457 Hamburg

Telefon: +49 (0) 40 54 80 56 11

Telefax: +49 (0) 40 54 80 56 13

E-Mail: [nord@fortecag.de](mailto:nord@fortecag.de)

Internet: [www.fortecag.de](http://www.fortecag.de)

**FORTEC Elektronik AG**

Büro West  
Hohenstaufenring 55  
50674 Köln

Telefon: +49 (0) 221 272 273-0

Telefax: +49 (0) 221 272 273-10

E-Mail: [west@fortecag.de](mailto:west@fortecag.de)

Internet: [www.fortecag.de](http://www.fortecag.de)

**FORTEC Elektronik AG**

Büro Wien  
Nuschinggasse 12  
A-1230 Wien

Telefon: +43 1 8673492-0

Telefax: +43 1 8673492-26

E-Mail: [office@fortec.at](mailto:office@fortec.at)

Internet: [www.fortec.at](http://www.fortec.at)

**ALTRAC AG**

(Tochter der FORTEC):  
Bahnhofstraße 3  
CH-5436 Würenlos

Telefon: +41 (0) 44 7446111

Telefax: +41 (0) 44 7446161

E-Mail: [info@altrac.ch](mailto:info@altrac.ch)

Internet: [www.altrac.ch](http://www.altrac.ch)

The information contained in this document has been carefully researched and is, to the best of our knowledge, accurate. However, we assume no liability for any product failures or damages, immediate or consequential, resulting from the use of the information provided herein. Our products are not intended for use in systems in which failures of product could result in personal injury. All trademarks mentioned herein are property of their respective owners. All specifications are subject to change without notice.

---



**3.7" x 6.6" x 1.38"**

### General Specifications:

Input voltage ..... 90 VAC to 264 VAC  
 Input frequency ..... 47 Hz to 63 Hz  
 Standby power ..... < 0.2W at no load  
 (remote off status) < 0.5W at 5Vsb/40mA output  
 Inrush current ..... < 30/60A at 115/230VAC  
 Efficiency ..... 90% typ.  
 Hold up time ..... 18ms typ.  
 Over load/Short circuit protection ..... auto recovery  
 Over voltage protection ..... latch off  
 Operating temperature ..... -35°C to 70°C  
 derating: 2.5% / °C > 50°C

### Features:

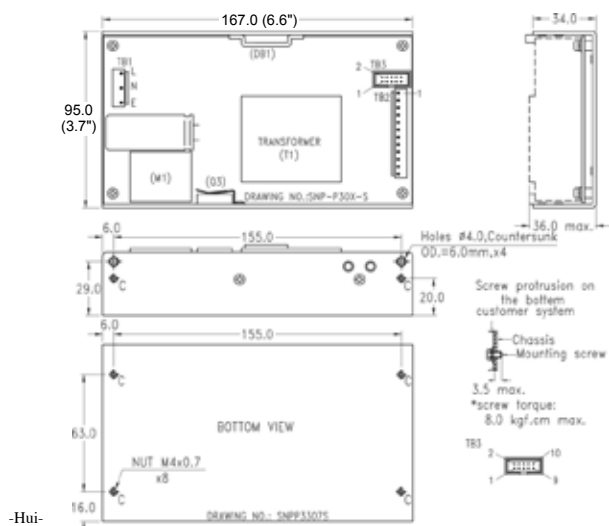
- Surge load (3 x rated current, Vo>60% typical for 1 sec)
- Peak load (1.5 ~ 2 x rated current, Vo=rated for 5 sec)
- Design for BF application
- Convection cooling for Rated power
- With +5Vsb & +12V Fan output
- Remote on/off & remote sense
- Fan speed controlled by loading
- EMI class B
- -30°C to +70°C operating temperature
- 5,000m operation altitude

### Applications:

- For peak load and surge load applications, such as active speaker and audio power amplifier, motor drive, coffee machine, vending machine, gaming machine, and oehr industrials.
- For EMI class B application, such as home healthcare device, and other medical devices.

Cooling ..... 300W at convection cooling  
 420W at forced air cooling  
 Storage temperature ..... -40°C to +85°C  
 EMI ..... EN55022 "B", EN61000-3-3  
 Harmonics..... EN61000-3-2, class D  
 EMS..... EN61000-4-2,-3,-4,-5,-6,-8,-11  
 Safety ..... UL/CSA/EN60950-1, 2<sup>nd</sup> edition  
 ANSI/AMMI/CSA/EN60601-1, 3.1 edition  
 Energy Saving ..... ENERGY STAR  
 for computers version 6.0  
 for displays version 6.0  
 ErP regulation EC(No) 1275/2008

### Mechanical Specifications:



### Notes:

1. Size:  
3.7" x 6.6" x 1.38"
2. Mounting Hole:  
Side edge: 155 x 29 (mm)  
Bottom: 155 x 63 (mm)
3. Connectors:  
AC input: Using JST B5P-VH withdraw 2 pins or equivalent  
DC output: Using JST B12P-VH or equivalent  
Remote ON/OFF & Standby Output & Fan output & Remote Sense: 2 x 5 (10 pins) 0.1 pitch
4. Output Pin assignment (TB2):      Function Pin assignment (TB3):
 

1 ~ 6	7 ~ 12
Vo	GND

Pin 1	FAN GND	Pin 2	FAN
3	RS+	4	GND
5	RS-	6	+5Vsb
7	GND	8	Remote
9	PG/PF	10	GND
5. Packing:  
Net weight: 635 g approx. / unit  
Gross weight: 15.5 kg approx. / carton, 20 units / carton  
Carton size (mm): 453 (L) x 362 (W) x 279 (H)

10 years Warranty (contact Skynet's Distributors for details)

## Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD				INITIAL ACCURACY	STEP EFFICIENCY			AVERAGE EFFICIENCY
		MIN.	RATED	MAX.	PEAK		@ 20% LOAD	@ 50% LOAD	@ 100% LOAD	
SNP-P307-S	+12V	0A	25A	35A	50A	+11.9V~+12.1V +4.5V~+5.5V	87%	90.5%	91%	89%
	+5Vsb	0A	1A	1.5A						
SNP-P309-S	+24V	0A	12.5A	17.5A	25A	+23.9V~+24.1V +4.5V~+5.5V	87%	91%	91.5%	89%
	+5Vsb	0A	1A	1.5A						
SNP-P30H-S (ITE only)	+60V	0A	5A	7A	10A	+59.1V~+60.1V +4.5V~+5.5V	87%	91%	92%	90%
	+5Vsb	0A	1A	1.5A						

### Note:

1. **Standby Power Consumption with System:**

For computers and displays, ENERGY STAR in U.S. and ErP regulation in Europe require the input power should be less than 0.5W at standby mode.

2. **Output Load:**

300W for convection cooling; 420W for forced air cooling.

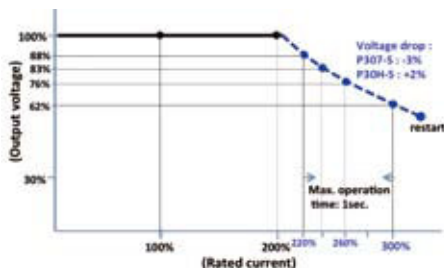
3. **Peak Load Duration:**

Peak 600W can last for 5 sec.

4. **High Torque Output Current:**

For motor drive or audio amplifier, the output current can be up to 300% rated current within 1000ms, and output voltage can keep above 60% Voltage.

Example: SNP-P309-S



5. **Isolation Grade:**

Primary ↔ Ground : 1MOPP (1500Vac)

Primary ↔ Secondary : 2MOPP (4000Vac)

Secondary ↔ Ground : 1MOPP (1500Vac)

6. **Leakage Current:**

Earth leakage current < 300uA

Touch current < 100uA

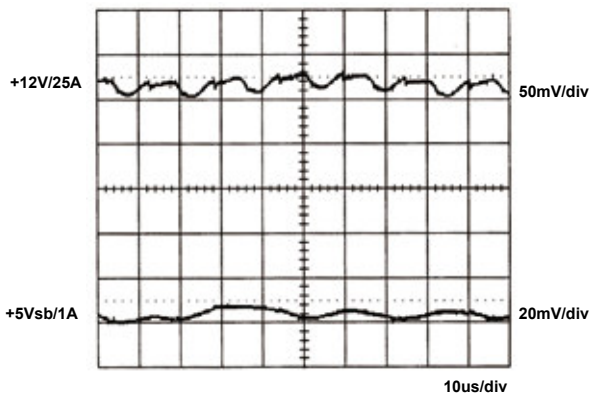
7. **Model Selection:**

SNP-P307-S and SNP-P309-S are for ITE & medical applications.

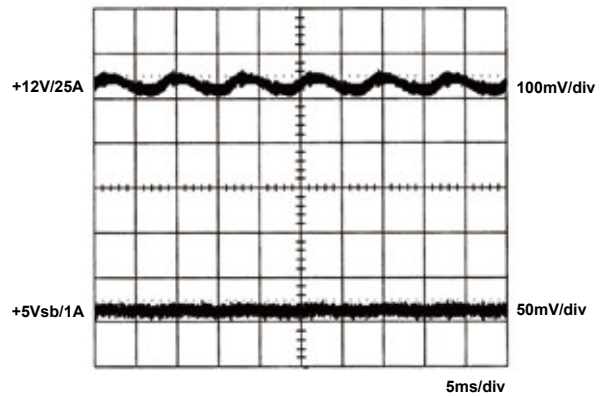
SNP-P30H-S is only for ITE application.

**Performance for SNP-P307-S:**

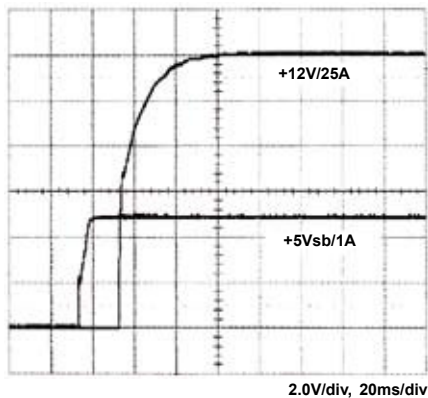
1. Switching frequency ripple



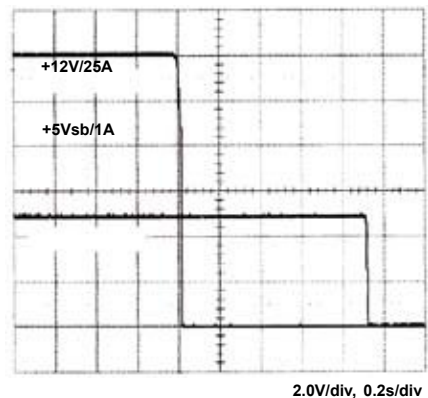
2. Line frequency ripple



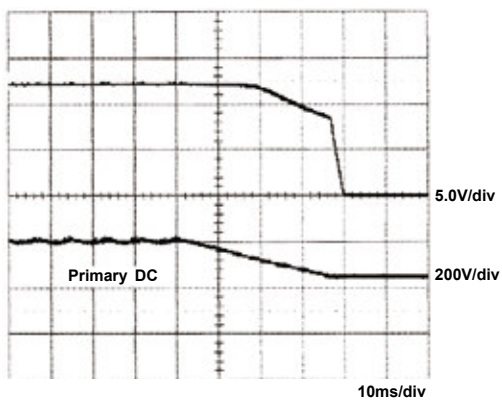
3. Output turn on wave form



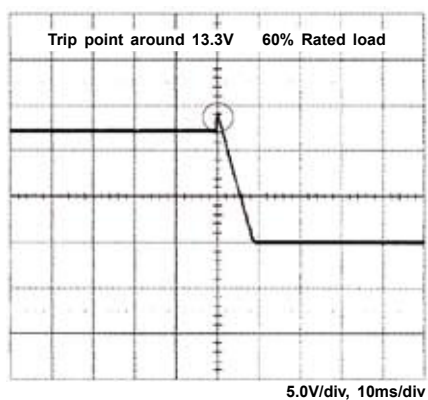
4. Output turn off wave form



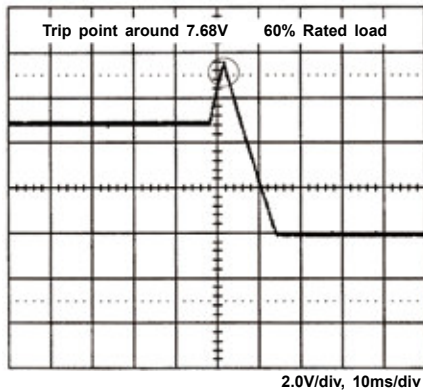
5. Hold-up time



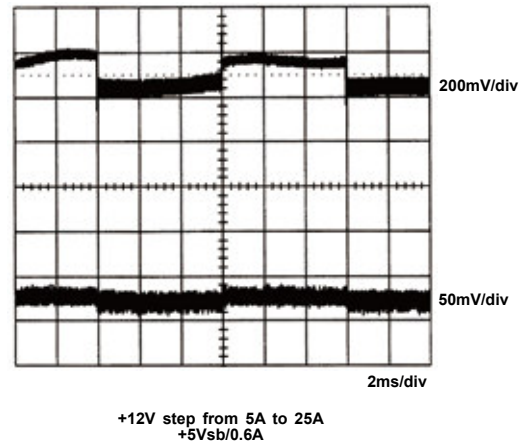
6. +12V Over voltage protection



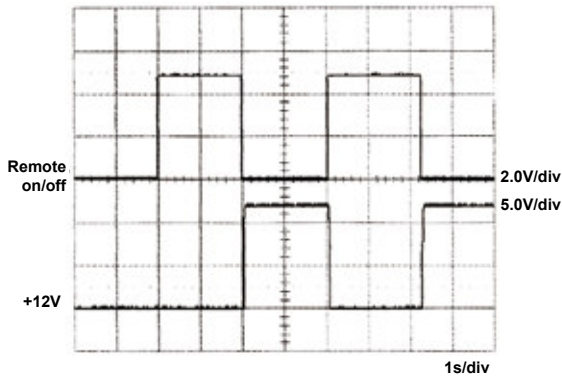
### 7. +5Vsb step response



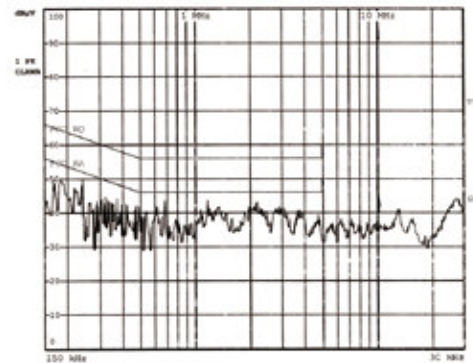
### 8. +12V step response



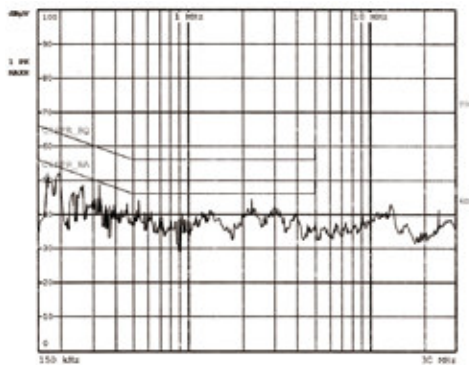
### 9. Remote on/off



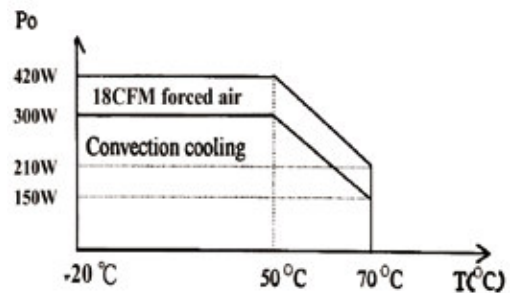
### 10. FCC B



### 11. EN55011 B



### 12. Power derating curve



# FORTEC

ELEKTRONIK AG

Our company network supports you worldwide with offices in Germany, Austria, Switzerland, Great Britain and the USA. For more information please contact:

## FORTEC Elektronik AG

Hauptniederlassung  
Lechwiesenstr. 9  
86899 Landsberg am Lech

Telefon: +49 (0) 8191 91172-0  
Telefax: +49 (0) 8191 21770  
E-Mail: [sales@fortecag.de](mailto:sales@fortecag.de)  
Internet: [www.fortecag.de](http://www.fortecag.de)

## FORTEC Elektronik AG

Büro Nord  
Am Hasenkamp 36  
22457 Hamburg

Telefon: +49 (0) 40 54 80 56 11  
Telefax: +49 (0) 40 54 80 56 13  
E-Mail: [nord@fortecag.de](mailto:nord@fortecag.de)  
Internet: [www.fortecag.de](http://www.fortecag.de)

## FORTEC Elektronik AG

Büro West  
Hohenstaufenring 55  
50674 Köln

Telefon: +49 (0) 221 272 273-0  
Telefax: +49 (0) 221 272 273-10  
E-Mail: [west@fortecag.de](mailto:west@fortecag.de)  
Internet: [www.fortecag.de](http://www.fortecag.de)

## FORTEC Elektronik AG

Büro Wien  
Nuschinggasse 12  
A-1230 Wien

Telefon: +43 1 8673492-0  
Telefax: +43 1 8673492-26  
E-Mail: [office@fortec.at](mailto:office@fortec.at)  
Internet: [www.fortec.at](http://www.fortec.at)

## ALTRAC AG

(Tochter der Fortec AG):  
Bahnhofstraße 3  
CH-5436 Würenlos

Telefon: +41 (0) 44 7446111  
Telefax: +41 (0) 44 7446161  
E-Mail: [info@altrac.ch](mailto:info@altrac.ch)  
Internet: [www.altrac.ch](http://www.altrac.ch)

## Members of the FORTEC Group:

