

Features:

- Only 1.18 inch height
- With ITE & Medical safety
- Efficiency between 77% to 87%
- Operation from 0°C to 70°C by convection

Applications:

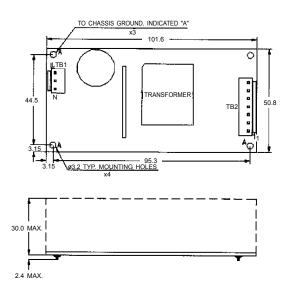
For dental, laboratory products, pumps, monitors, sleep apnea devices and many other uses.

General Specifications:

| Input voltage | 90VAC to 264VAC |
|--------------------------|-------------------------------------|
| Input frequency | 47Hz to 63Hz |
| Inrush current | < 40A at 115VAC |
| (cold start at 25°C) | or < 70A at 230VAC |
| Efficiency | |
| | at rated load and 115VAC |
| Hold up time | 15ms typical |
| | at rated load and 115VAC, or 230VAC |
| Over load protection | auto recovery |
| Short circuit protection | auto recovery |

| Over voltage protection | latch off |
|-------------------------|---|
| Operating temperature . | 0°C to 70°C convection |
| | derating: $2.5\% / ^{\circ}\text{C} > 50^{\circ}\text{C}$ |
| Cooling | free air convection |
| Storage temperature | -40°C to +85°C |
| EMI | FCC "B" |
| | EN55022"B", EN55011"B" |
| EMS | EN61000-4-2,-3,-4,-5,-6,-8,-11 |
| Safety | UL 60950-1, UL 60601-1 |
| | CSA C22.2 No. 60950-1, No. 60601.1 |
| | EN 60950-1, EN 60601-1 |

Mechanical Specifications:



Notes:

- Dimensions shown in mm as left. Tolerance: ±0.4mm.
- Size: 50.8 x 101.6 x 30 (mm) 2" x 4" x 1.18" Packing:

Net weight: 140 g approx. / unit Gross weight: 13.5 kg approx. / carton, 80 units / carton Carton size (mm): 382 (L) x 374 (W) x 277 (H)

Connectors:

Connectors:
AC input: JST B6P3-VH or equivalent
DC output: JST B6P-VH or equivalent for single output
JST B7P-VH or equivalent for multiple outputs
Output Pin assignment:

| PIN NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------|------|-----|-----|-----|------|-------|-------|
| SNP-Z061 | -12V | +5V | +5V | GND | GND | +12V | +12V |
| SNP-Z06D | +12V | +5V | +5V | GND | GND | +3.3V | +3.3V |
| SNP-Z063 | NC | +5V | +5V | GND | GND | +12V | +12V |
| SNP-Z06A | NC | +5V | +5V | GND | GND | +24V | +24V |
| SNP-Z066-1 | GND | GND | GND | +5V | +5V | +5V | |
| SNP-Z067 | +5V | GND | GND | GND | +12V | +12V | |
| SNP-Z067-1 | NC | GND | GND | GND | +12V | +12V | |
| SNP-Z068 | +5V | GND | GND | GND | +15V | +15V | |
| SNP-Z068-1 | NC | GND | GND | GND | +15V | +15V | |
| SNP-Z069 | +5V | GND | GND | GND | +24V | +24V | |
| SNP-Z069-1 | NC | GND | GND | GND | +24V | +24V | |
| SNP-Z06T | NC | GND | GND | GND | +48V | +48V | |

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



Output Specifications:

| MODEL | OUTPUT | LOAD | | | | VOLTAGE | RIPPLE | LINE | LOAD | EFFICIENCY |
|------------|----------------------|----------------|--------------------|------|----------|---|------------------|-------------------|-------------------|------------|
| NO. | RAIL | MIN. | RATED | MAX. | PEAK | ACCURACY | NOISE | REG. | REG. | TYPICAL |
| SNP-Z061 | +5V +12V -12V | 0A 0A 0A | 3A 3A 0.3A | | 5A 5A | +4.95V~+5.05V +11.4V~+12.6V -11.4V~-12.6V | 1% 1% 1% | ±1% ±1% ±1% | ±3% ±3% ±5% | 82% |
| SNP-Z06D | +3.3V +5V +12V | 0A 0A 0A | 4.5A 3A 0.7A | | 6A 5A | +3.2V~+3.4V +4.75V~+5.25V +11.4V~+12.6V | 50mV 1% 1% | ±1% ±1% ±1% | ±3% ±3% ±5% | 80% |
| SNP-Z063 | +5V +12V | 0A 0A | 3A 3A | | 6A 5A | +4.95V~+5.05V +11.4V~+12.6V | 1% 1% | ±1% ±1% | ±3% ±3% | 82% |
| SNP-Z06A | +5V +24V | 0A 0A | 4A 1.5A | | 6A 3A | +4.95V~+5.05V +22.8V~+25.2V | 1% 1% | ±1% ±1% | ±3% ±3% | 83% |
| SNP-Z066-1 | +5V | 0A | 12A | | 18A | +4.95V~+5.05V | 1% | ±0.5% | ±0.5% | 85% |
| SNP-Z067 | +12V +5V | 0.1A 0A | 4.8A 0.5A | | 7.5A | +11.88V~+12.12V +4.75V~+5.25V | 0.5% 1% | ±1% ±1% | ±1% ±1% | 82% |
| SNP-Z067-1 | +12V | 0.1A | 5A | | 7.5A | +11.88V~+12.12V | 0.5% | ±1% | ±1% | 85% |
| SNP-Z068 | +15V +5V | 0A 0A | 3.8A 0.5A | | 6A | +14.85V~+15.15V +4.75V~+5.25V | 0.5% 1% | ±1% ±1% | ±1% ±1% | 84% |
| SNP-Z068-1 | +15V | 0.1A | 4.3A | | 6A | +14.85V~+15.15V | 0.5% | ±1% | ±1% | 85% |
| SNP-Z069 | +24V +5V | 0.1A 0A | 2.4A 0.5A | | 3.7A | +23.75V~+24.24V +4.75V~+5.25V | 0.5% 1% | ±1% ±1% | ±1% ±1% | 85% |
| SNP-Z069-1 | +24V | 0.1A | 2.7A | | 3.7A | +23.75V~+24.24V | 0.5% | ±1% | ±1% | 85% |
| SNP-Z06T | +48V | 0A | 1.35A | | 1.9A | +47.6V~+48.4V | 0.5% | ±0.5% | ±0.5% | 87% |

Note:

- $1. \quad \text{At peak load, the output can last for 8 seconds without shut down.} \\$
- 2. The maximum combinational load of SNP-Z06D for +3.3V & +5V is 30W.
- 3. At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within the specified accuracy range at rated load.
- 4. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- 5. Load regulation is defined by changing ±40% of measured output load from 60% rated load at another output set to 60% rated load.
- 6. Ripple & noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal line.
- 7. Hold up time is measured from the end of the last charging pulse to the time which the main output drop down to regulation limit at rated load and nominal line.
- 8. The efficiency is measured at nominal line and rated load.

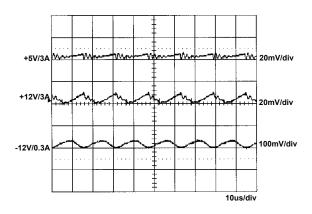




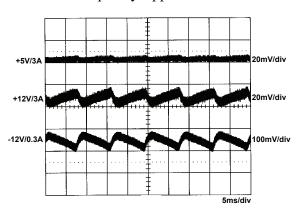
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Performance for SNP-Z061:

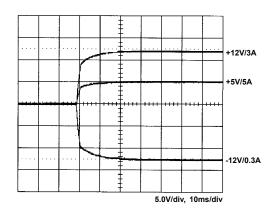
1. Switching frequency ripple



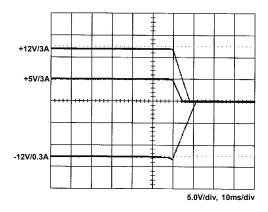
2. Line frequency ripple



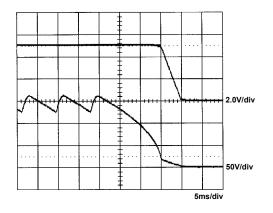
3. Output turn on wave form



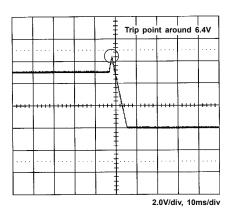
4. Output turn off wave form



5. Hold-up time



6. Over voltage protection

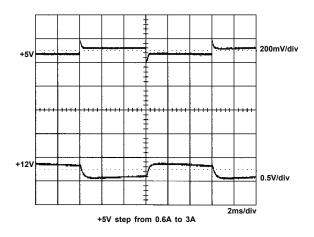




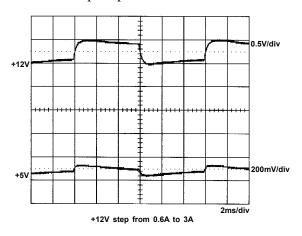
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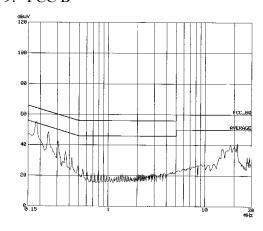
7. +5V step response



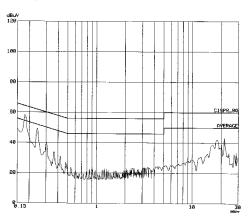
8. +12V step response



9. FCC B



10. EN 55022 B



11. Power derating curve

