ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Mean Well S-100F-24* at our website: *Click HERE*

100W Single Output Switching Power Supply

S-100 series



■ Features :

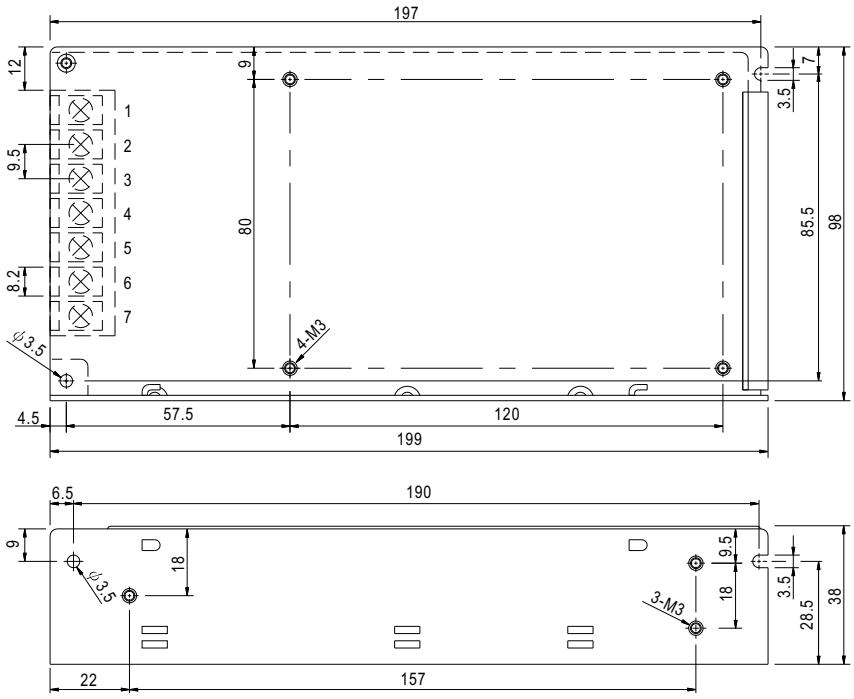
- AC input range selectable by switch
- Protections: Short circuit / Overload
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 25KHz
- Low cost
- High reliability
- 1 year warranty

SPECIFICATION

MODEL		S-100-3	S-100-5	S-100-7.5	S-100-10	S-100-12	S-100-15	S-100-18	S-100-24	S-100-27	S-100-36	S-100-48
OUTPUT	DC VOLTAGE	3V	5V	7.5V	10V	12V	15V	18V	24V	27V	36V	48V
	RATED CURRENT	20A	20A	13.6A	10A	8.5A	6.7A	5.6A	4.5A	3.7A	2.7A	2A
	CURRENT RANGE	0 ~ 20A	0 ~ 20A	0 ~ 13.6A	0 ~ 10A	0 ~ 8.5A	0 ~ 6.7A	0 ~ 5.6A	0 ~ 4.5A	0 ~ 3.7A	0 ~ 2.7A	0 ~ 2A
	RATED POWER	60W	100W	102W	100W	102W	100.5W	100.8W	108W	99.9W	97.2W	96W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
	VOLTAGE ADJ. RANGE	2.85 ~ 3.3V	4.75 ~ 5.5V	6.75 ~ 8.25V	9 ~ 11V	10.8 ~ 13.2V	13.5 ~ 16.5V	16.2 ~ 19.8V	21.6 ~ 26.4V	26 ~ 32V	32.4 ~ 39.6V	43.2 ~ 52.8V
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	±0.2%
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	±0.2%
	SETUP, RISE TIME	200ms, 80ms at full load										
	HOLD UP TIME (Typ.)	24ms at full load										
INPUT	VOLTAGE RANGE	85 ~ 132VAC/180 ~ 264VAC selected by switch 255 ~ 370VDC										
	FREQUENCY RANGE	47 ~ 63Hz										
	EFFICIENCY (Typ.)	70%	78%	80%	80%	81%	81%	82%	84%	84%	84%	84%
	AC CURRENT (Typ.)	1.9A/115VAC 0.96A/230VAC										
	INRUSH CURRENT (Typ.)	COLD START 27A/115VAC 54A/230VAC										
	LEAKAGE CURRENT	<1mA / 240VAC										
PROTECTION	OVERLOAD	105 ~ 150% rated output power (130 ~ 180% of rated output power for S-100-5, S-100-36 ; 150 ~ 200% of rated output power for S-100-7.5)										
		Protection type : Shut down o/p voltage, re-power on to recover										
ENVIRONMENT	WORKING TEMP.	-10 ~ +60℃ (Refer to output load derating curve)										
	WORKING HUMIDITY	20 ~ 90% RH non-condensing										
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH										
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)										
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes										
SAFETY & EMC	SAFETY STANDARDS	Design refer to UL1012										
	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										
	EMI CONDUCTION & RADIATION	Design refer to FCC Part15 J Conduction Class B										
OTHERS	MTBF	322.4K hrs min. MIL-HDBK-217F (25℃)										
	DIMENSION	199*98*38mm (L*W*H)										
	PACKING	0.62Kg; 20pcs/13.6Kg/0.8CUFT										
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC 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.											

■ Mechanical Specification

Case No. 902 Unit:mm

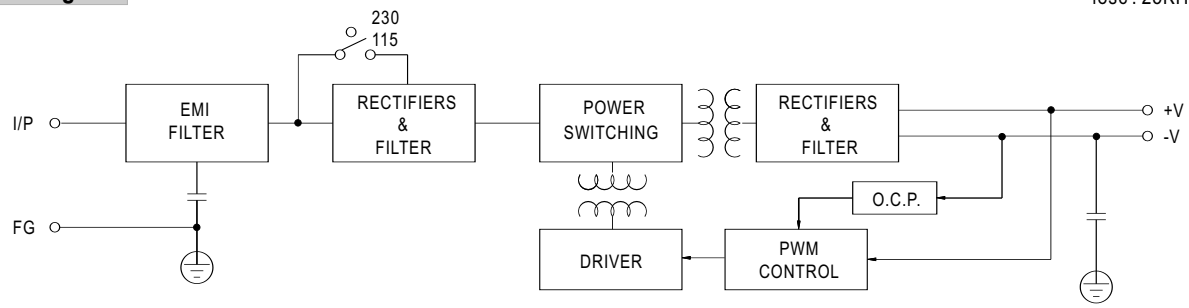


Terminal Pin No. Assignment

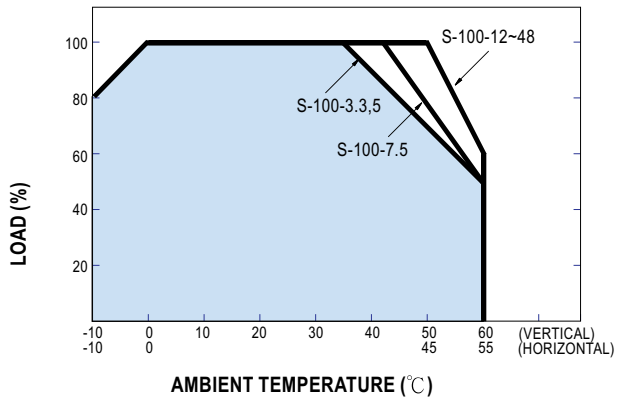
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5	DC OUTPUT -V
2	AC/N	6,7	DC OUTPUT +V
3	FG ⏚		

■ Block Diagram

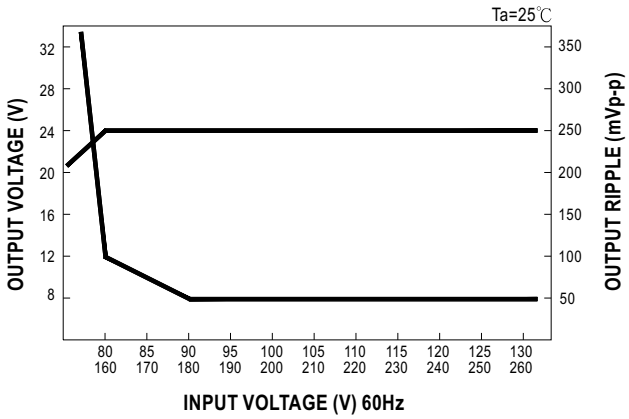
fosc : 25KHz



■ Derating Curve



■ Static Characteristics (24V)



Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP