

S1500 RANGE

Industrial application - Single output AC-DC power supply unit

FEATURES

Input voltage

90÷260Vac with PFC
115/230Vac ±15%, jumper on pcb

Input frequency

50/60Hz

Efficiency

75÷85% (depending on output voltage)

Switching operating frequency

30kHz ca.

Input protections

- Start-up peak current limitation: 30A at Vin=220Vac

- Fuses on both input lines and EMI filter

Leakage current to GND

Max 2mA at 50Hz

See table for

- Output voltages and currents
- Line and load regulation
- Output ripple and noise

Output protections

- Over load
- Short circuit
- Over voltage : at Vo + 25% typ.
- Over temperature : with thermostatic sensor

Hold up time

15msec min.

Start up time

60msec typ.

Output power

1440W

Remote sense compensation

0.5V max

Output signals

- AL - Alarm signal

Inhibit input

- TTL/CMOS comp. low active

Operating indicators

- Green led : input voltage
- Yellow led : over temperature
- Red led : power failure

Operating temperature

0°C to 50°C

Temperature power derating

2%/°C (50÷70°C)

Storage temperature

-20°C to 85°C

Temperature drift

0.01%/°C typ.

Long term stability

Better than 1% after 24 hours

Cooling

Forced ventilation

Dielectric withstand voltage

- Input - Output : 3750Vac (on insul.comp.)
- Input - P.E.: 1750Vac

Isolation

- Output - P.E.: 500Vdc

Comply with

- EN 50081-1
- EN 61000-6-2
- EN 60950-1
- CE

Weight

6.500g

Optional features

- BAL - Load balance adjust. for parallel connection
- DC - DC input for AC-DC units
- DD - Output decoupl. diode for parallel connection
- PF - Power fail/reset signals
- PFC - Power factor correction circuit
- PROG - Programmable Vout

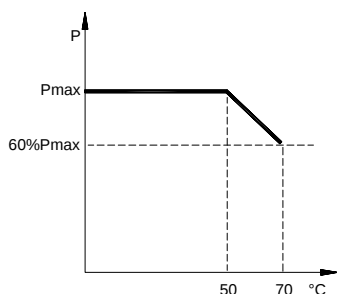
FEATURES TABLE

MODEL	Vout nom. Volts	Output voltage adj. Volts	Iout @ Vout nom. Ampere	Line regulation VIN(min÷max) %	Load regulation (10÷100%) %	Ripple & Noise (0÷30MHz) % Vout
S1506	24	20÷28	60	±0.1	±0.5	1
S1508	48	41÷52	30	±0.1	±0.5	1
S1509	96	85÷110	15	±0.1	±0.5	1

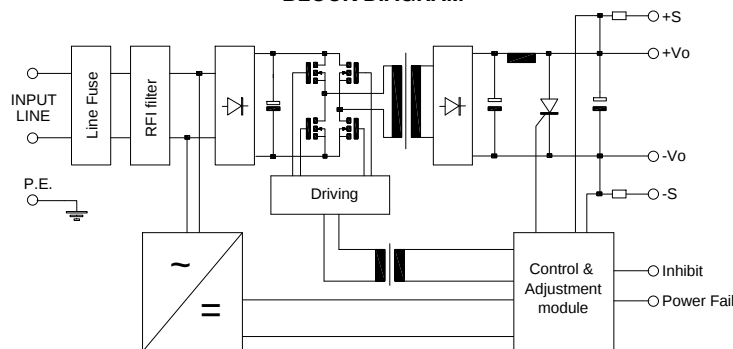
POWER SUPPLY VIEW



TEMP. POWER DERATING

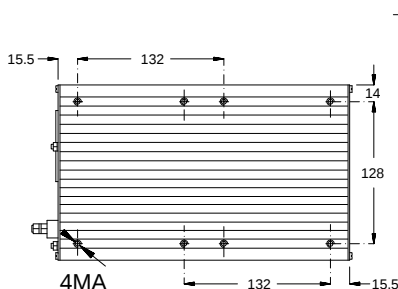


BLOCK DIAGRAM

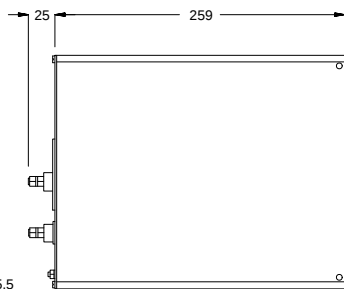


DIMENSIONS AND CONNECTIONS

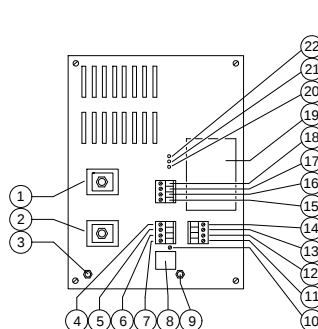
top/bottom view



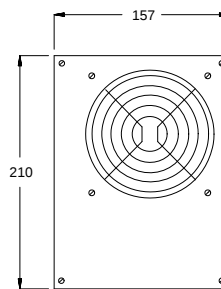
side view



front view



rear view



- 1)Vout+ 2)Vout- 3)P.E./Chassis 4)Inhibit 5)Sense- 6)Sense+ 7)Spare 8)n.c. 9)P.E./Chassis
10)Vadj. 11)ACinput N 12)ACinput N 13)ACinput L 14)ACinput L 15)Relay N.O. 16)Relay Com 17)Relay N.C.
18)Balance sign. 19)Model Code 20)Led input line 21)Led over-temp 22)Led failures 23)Heat sink (enclosure B)