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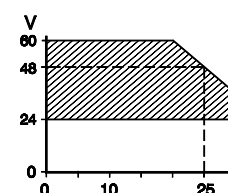
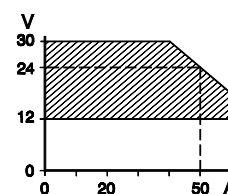
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DELTA ELEKTRONIKA B.V.



1200 S - Series 1200 W SWITCHED MODE DC POWER SUPPLY

Models	Voltage	Current
1200 S 24	12 -15 V	60 A
	24 V	50 A
	30 V	40 A
1200 S 48	24 - 30 V	30 A
	48 V	25 A
	60 V	20 A



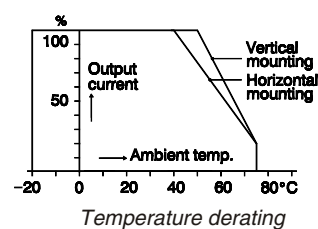
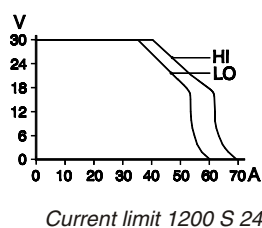
Features :

- Very high reliability, MTBF 500.000 hrs
- Natural convection cooling
- High efficiency 89%
- Under-voltage alarm contact
- Low output ripple, 7 mV rms
- Low inrush current
- Short circuit protected
- Analog programmable
- Build-in diode for redundant parallel operating
- No RFI problems, RFI filters in output and input

Specifications :

- Input voltage : AC 198-264 V 48-62 Hz 8.2 Arms fuse 15 A T, crest factor 2.2
: AC 99-132 V 48-62 Hz 16.4 Arms fuse 25 A T
: DC contact factory
- Insulation
Input / output : 3750 V rms (1min)
Input / case : 2500 V rms (1min)
Output / case : 500 V DC
- Inrush current : Limited by 39 Ohm (shorted after startup)
- Line disortion : Kept low by large low frequency choke input
- Power factor : 0.72 at 230 V AC input and full load.
- Safety : EN 60950 / EN 61010
SELV / PELV (for 1200 S 24 only)
- EMC : EN 61204-3 Power Supply Standard
: EN 61000-6-3 Emission (EN 55022B)
: EN 61000-6-2 Immunity
- VDE0160 impulse test : Input with stands non periodic impulse
2.3 \hat{U}_n 0.3 ms of VDE0160 class 1
- Parallel operation : For safe parallel operation put current operation
limit switch at 'LO' (max.1100 W)
- Redundant parallel : Use R+ connection via build-in Schottky diode to separate the outputs. put current limit at 'LO'
Do not use remote sensing.
- Output voltage : Screwdriver adjustable with 10
turn potmeter at the rear side.
Also programmable by 2-5 V
- Efficiency : 89% at 230 V AC input.
- Temp. coeff. : $5 \cdot 10^{-5}$ per °C
- Stability : $3 \cdot 10^{-4}$ during 8 hrs under
constant conditions, after 1 hr
warm up.
- Regulation
Load 0 - 100% : Better than 10 mV
Line 198 -264 V : Better than 5 mV
- Ripple + noise (BW = 20 MHz) : Max. 7 mV rms, 20 mV pp
- Output imp. : Less than 0.05 Ohm up
to 100kHz
- Recovery time : 0.3 milliseconds to recover within
100 mV after 50 to 100% load
step. Max deviation 300 mV.
- Hold-up time : 15 ms at 115 or 230 V AC input
and full load. 30 ms at half load.
- Series operation : Up to 500 V total Voltage.

- Under voltage alarm contact : changes over when output voltage drops
to 10% below the set value. Contact rating
100 mA / 30 V.
- Remote control : Is possible with a 10 K Ω potmeter.
- Remote programming : Output voltage is programmable with 2-5 V,
corresponding with 12-30 V (24-60 V).
Programming speed is 100 ms from 12-30 V
(24-60 V) at max. current. Programming input
is not isolated (connected to - output)
- Remote sensing : max. 3 V per load lead. however the sum of
voltage across load + leads cannot exceed
30 V (60 V) With parallel operation remote
sensing is not recommended.
- Remote on/off : By 5 V, optocoupler isolated.
- Ambient temperature
Storage : - 40 to + 85 °C
Operating : - 20 to + 50 °C mounted vertically
: - 20 to + 40 °C mounted horizontally
- Overload Protection : Continuous overload and short circuit
does not harm the unit. At short circuit
the power supply produces an audible
bleep.
- Voltage limit : For safety an extra regulation circuit limits
the output voltage to about 31 V (62 V) in
in case of malfunction of the normal
regulation. This limit is internally adjustable
20-31 V (40-62 V) (R111).
- Led lamps : Green leds on the front and rear panel
indicate output voltage.
- Wall mounting : The natural convection cooling functions
best when the unit is mounted vertically
as drawn (input at upper side)
The covers are used as heat sinks, so
some space between cover and wall is
necessary.



- Current limit : Can be put on HI or LO with a switch on the front panel. From 30 V to 18 V (60 to 36 V) the current limit follows
more or less a constant power curve. below 18 V (36 V) it resembles a constant current curve.

- Dim and weight : Height : 88 mm
 : Width : 433 mm
 : Depth : 385 mm
 : Weight : 11 kg

- 19" rack adapter : Although vertical mounting is preferred for optimal cooling, the unit can also be mounted horizontally in a 19" rack (2 U)
 The current limit switch has to be put on 'LO' (max. 1100W).
 When forced air cooling is used, the full 1200 W can be taken continuously (limit on 'HI').

- Ambient temperature
 Storage : - 40 to + 85 °C
 Operating : - 20 to + 50 °C mounted vertically
 : - 20 to + 40 °C mounted horizontally

