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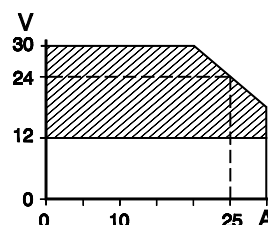
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DELTA ELEKTRONIKA B.V.



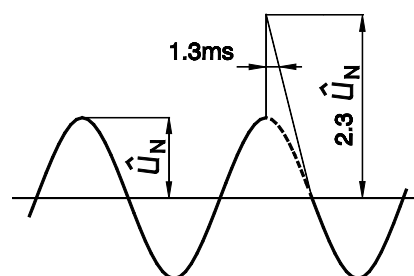
600 S - Series 600 W SWITCHED MODE DC POWER SUPPLY

Models	Voltage range	Current range
600 S 24	12 -15 V	30 A
	24 V	25 A
	30 V	20 A



Features :

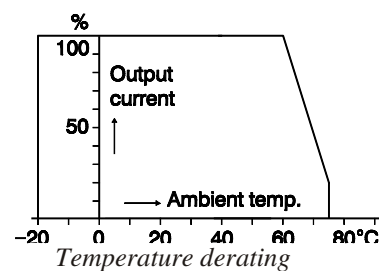
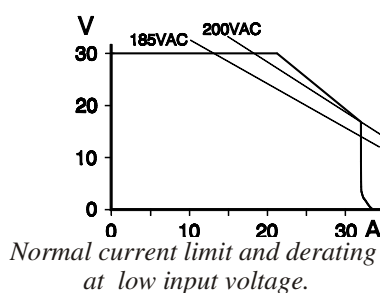
- Very high reliability, MTBF 1.000.000 hrs
- Natural convection cooling
- Thermally over-rated for high ambient temperature without derating
- Build-in diode for redundant parallel operating
- Under-voltage alarm contact
- Low output ripple, 7 mV rms
- Analog programmable
- Short circuit protected
- High efficiency 89%
- Low inrush current
- Meets EN 61000-3-2 and V DE 0160 class 2
- No RFI problems, RFI filters in output and input



Specifications :

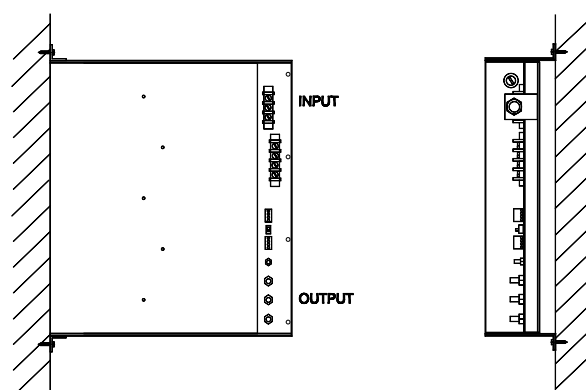
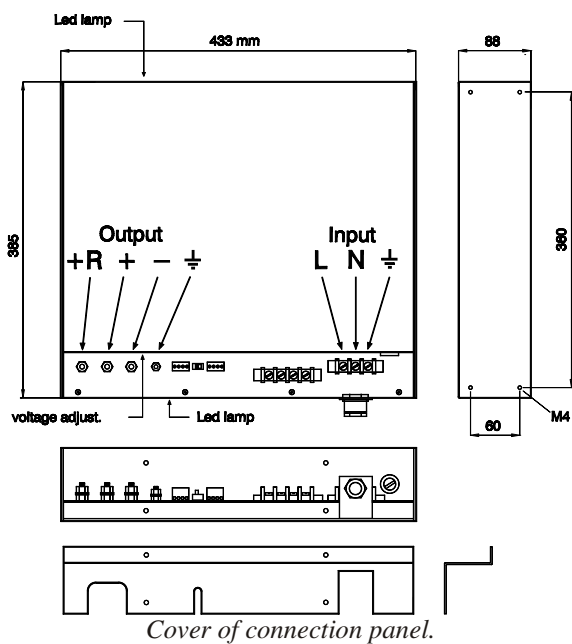
- Input voltage : AC 198-264 V 48-62 Hz 3.8 Arms
fuse 6.3 A T, crest factor 2.0
: AC 99-132 V 48-62 Hz 7.6 Arms
fuse 12.5 A T
: DC contact factory
- Insulation
- Input / output : 3750 V rms (1min)
- Input / case : 2500 V rms (1min)
- Output / case : 500 V DC
- Inrush current : Limited by 47 Ohm (shorted after startup)
- Power factor : 0.76 at 230 V AC input and full load.
- 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 1.3 ms of VDE0160 class 2
- Series operations : up to 500 V total voltage
- Parallel oper. : No restrictions
- Redundant parallel : Use R+ connection via build-in Schottky operation diode to separate the outputs.
Do not use remote sensing.
- Line distortion : Harmonic current meets EN 61000-3-2
- Safety : EN 60950, EN 61010 SELV / PELV
- Output voltage : Screwdriver adjustable with 10-turn
potmeter at the rear side.
Factory set at 24.0 V
Also analog programable by 2-5 V
- Efficiency : 89% at 230 V AC input and 600 W output
(max. heat dissipation 74 W)
- Temp. coeff : 5.10⁻⁵ per °C
- Stability : 3.10⁻⁴ during, 8 hrs under constant
conditions, after 1 hr warmup.
- Regulation
Load 0 - 100% : Better than 10 mV
line 198-264 V : Better than 5 mV
- Ripple + noise : Max 7 mV rms, 20 mV pp (BW = 20 MHz)
- Output imp. : Less than 0.05 Ohm up to 100 kHz
- Recovery time : 0.3 milliseconds to recover to within
100 mV after a 50 to 100% load step
Max. deviation 300 mV
- Hold-up time : 30 ms at 155 or 230 V AC input and full
load. 60 ms at half load.

- Under voltage alarm contact : Changes over when output voltage drops
to 10% below the the set value.
Gold 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. Programming
speed is 100 ms from 12-30 V at max current.
Programming input is not isolated (connected
to - output).
- Remote sensing : max. 3 V per load lead. However the sum of
the voltage across load + leads cannot
exceed 30 V.
With parallel operation remote sensing is not
recommended.
- Remote on/off : By 5 V, optocoupler isolated.
- Overload Protection: Continuous overload and short circuit
protection 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 in case
of malfunction of the normal regulation.
This limit is internally adjustable 20-31 V
(R111).
- Overtemp. pro- : With insufficient cooling the
tection shuts down.
- Led lamps : Green LEDs on front and rear panel
indicate output voltage.

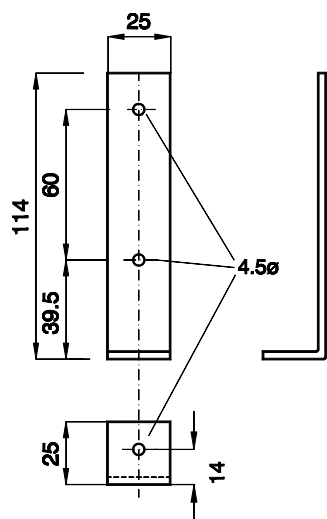


- Current limit : From 30 to 18 V the current limit follows more or less a constant power curve.
Below 18 V it resembles a constant current curve.
- MTBF : 1.000.000 hrs

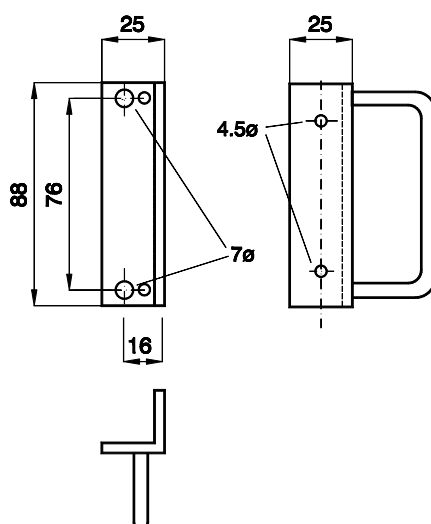
- Dim and weight : Height 88mm
: Width 433 mm
: Depth 385 mm
: Weight 10.5 kg
- 19" rack mounting : With two brackets H88 with handle the unit can be 19" rack mounted (2U height)
- Wall mounting : Any position, as long as the air can flow freely along the unit for cooling.
- Ambient temperature
Storage : -40 to + 85 °C
Operating : -20 to + 60 °C
Derate to 20% at 75 °C



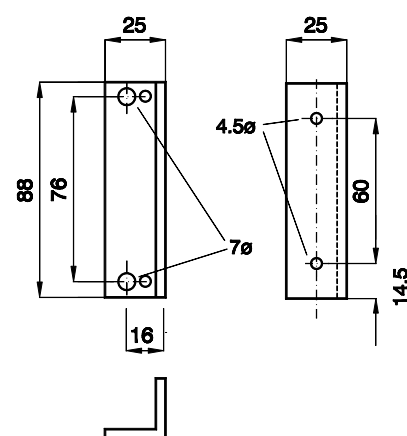
Two ways of vertical mounting



Bracket H114 for vertical wall mounting.
(4 pcs required)



Bracket H88 with handle for 19" rack mounting
(2 pcs required)



Bracket H88 for vertical wall mounting
(2 pcs required)