

# PS-30

## DIN-rail PSU



- ⌘ Output: DC 24 – 28V / 30 W
- ⌘ Input: 85 to 264 VAC  
85 to 375 VDC
- ⌘ DIN-rail mount
- ⌘ NEC Class 2 Power Supply and Hazardous Location class I Div. 2 (UL 1604)
- ⌘ World-wide approvals (UL, EN, CSA, CB Scheme) for industry and office/home
- ⌘ MTBF 650 000 h
- ⌘ Super small: WxHxD 45 x 75 x 91 mm

### Field of application

The PS-30 is a DIN-rail power supply unit (PSU) complying with many major safety approvals. The robust plastic housing makes the PSU small and the fine ventilation grid prevents small items entering and damaging it. The operational temperature range  $-10^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  and output voltage 24 VDC at 1.3 A makes the unit ideal for many industrial applications.

The PS-30 can be mounted and connected in record time as no tools are required for the spring clamp terminal connections.



Input	
Input voltage	100 to 240 VAC (Wide Range), 47–63Hz 100 to 338 VDC
Operating voltage	85 to 264 VAC 85 to 375 VDC
Input current	<0.6 A (@ AC 100 V, 30 W Pout) <0.35 A (@ AC 196 V, 30 W Pout)
External Fusing	Not required, unit provides internal fuse (T3AH, not accessible)
Transient immunity	Transient resistance acc. to VDE 0160 / W2 (750 V / 1.3 ms), over entire load range
Hold-up time	>190 ms @ AC 230 V, 24 V / 1.3 A >107 ms @ AC 196 V, 24 V / 1.3 A >19 ms @ AC 100 V, 24 V / 1.3 A

Output	
Output voltage *preset to	DC 24–28 V, adj. by front panel potentiometer 24.5 V $\pm$ 0.5%
Voltage regulation stat.	0.5% Vout, dyn. $\pm$ 2% Vout overall
Ripple/Noise	<50 mVPP (20 MHz bandwidth, 50 Ohm measurement)
Overvoltage prot.	<40 V
Parallel operation	Yes
Power back immunity	35 V
Operation indicator	Green LED (DC ON)

Environmental, EMC & Safety	
Ambient temperature range	(measured 25 mm below unit)
Storage, transport	-25°C – +85°C
Operation	-10°C – +70°C
Humidity	max. 95% (without condensation)
EME	EN 61000-6-3 (includes EN 61000-6-4) Class B (EN 55011, EN 55022) include output noise suppression
EMI	EN 61000-6-2 (includes EN 61000-6-1)
Safe low voltage	SELV (EN60950, VDE0100/T.410), PELV (EN50178)
Prot. class/degree	Class I (EN60950) / IP20 (EN60529)
The PSU complies with all major safety approvals for EU (EN 60 950, EN 60204-1, EN 50178), USA (UL 60950, E137006, UL508 LISTED, E198865), Canada (CAN/CSA-C22.2 No 60950 [CUR], CAN/CSA-C22.2 No. 14 [CUL]), CB Scheme (IEC 60950). NEC Class 2 Power Supply	

Efficiency & Reliability	
Efficiency typ.	87.5% (AC 230 V, 24 V / 1.3 A)
Losses	typ. 4.5 W (AC 230 V, 24 V / 1.3 A) MTBF 650.000h acc. to Siemensnorm SN 29500 (24 V / 1.3 A, AC 230 V, Tamb = +40°C)

Mechanical Details	
Robust plastic housing, fine ventilation grid on three housing sides to keep out small parts (e.g. screws), IP20	
Dimensions and weight	
B x H x T	45 x 75 x 91 mm (+ DIN-rail Depth incl. terminals: 98 mm (+ DIN Rail))
Weight	230 g