



Power Supply Unit 24 V-150 W

SV



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- Optimised for use with danger detection systems
 - Short-circuit protection
 - Integrated battery management
 - Uninterruptible battery backed power supply unit
 - Max. three devices can be shunted to improve performance with uniform current distribution
 - Advanced design aluminium/stainless steel housing
 - CE, CPD, VdS and DIBt compliant
 - RoHS compliant

Power Supply Unit 24 V/150 W generates a nominal supply-isolated output voltage of 24 V. It is equipped with an automatic range for operation with 115 V or 230 V mains supply.

It also provides temperature-compensated charge and charge retention for batteries that ensure continued operation in the event of a power failure (continuous battery power supply).

The outputs for the 24 V operating voltage and the battery charge have short-circuit protection and a no-load withstand capability.

The power supply unit has a non-reacting design, i. e. the malfunction or failure of a power source does not cause the other power sources to malfunction (e. g. short-circuit or interruption of the battery line, component failure).

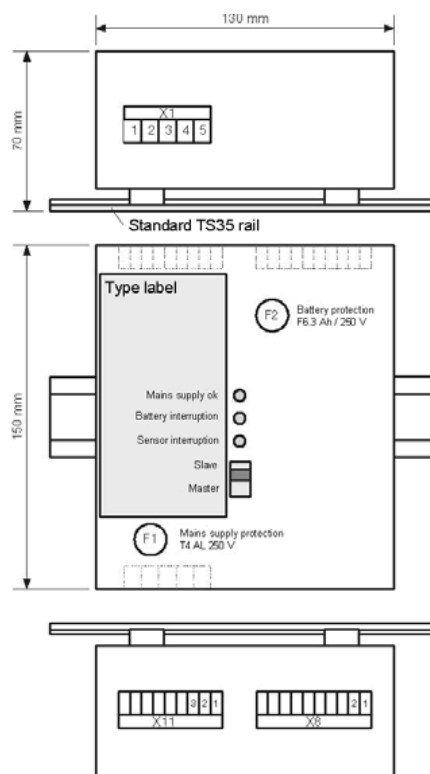
The power supply unit guarantees unrestricted operation, which means that the output voltage is not unacceptably impaired when supply transfers from one power source to another.

The over-voltage protection prevents the output voltage from increasing to an unacceptably high level in the event of a defect in the power supply unit.

The deep discharge protection prevents the battery from being completely discharged in the event of a power failure. The battery is disconnected after the end-point voltage is reached.

The power supply unit monitors the mains supply and battery power sources as well as the temperature sensor to ensure that they are functioning correctly. Should an error occur, a power supply interruption, battery interruption or sensor interruption fault indication is generated, output via a floating contact assembly and displayed by means of LEDs on the surface of the casing.

A maximum of three of these power supply units can be shunted to increase power output.



Technical Data

Parameter		MIN	TYP	MAX	UNITS	CONDITIONS/NOTES
Input voltage	V_n	$V_n-30\%$	115 / 230	$V_n+15\%$	V_{AC}	$V_n-40\%$ for $t < 60$ s $V_n+25\%$ for $t < 10$ s
Power			195		VA	
Input current	I_n		2.6 / 1.2		A_{AC}	PFC in accordance with EN 61000-3-2
Input frequency	f_n	47	50	63	Hz	45 Hz for $t < 60$ s (Label 50-60 Hz)
Battery- / output voltage	$V_a/$ V_b	26.0		28.4	V_{DC}	-36 mV/°C, V_{min} with 55 °C, V_{max} with -10 °C, SELV, ±300 mV residual ripple 2.5%
Battery- / output current	I_a/ I_b	0		4.2	A_{DC}	short-circuit protection and no-load with-stand capability
Deep discharge protection	The battery is disconnected after the end-point voltage is reached. (21.0 V to 22.0 V)					
Charger	I-U- characteristic					
Battery test	The mains supply and battery power sources as well as the temperature sensor are monitored to ensure that they are functioning correctly.					
Parallel connection	A maximum of three of these power supply units can be shunted to increase power output.					

Environmental conditions

Ambient temperature	T	-10 (min.)		55 (max.)	°C	
Environmental rating	I	(VdS 2110), with temperature range above				
Safety class	4	(EN 50131-6)				
SV-Type (IMT)	B u. C	(VdS 2115)				

Approvals and Standards

CE	EN 54-4 / A2:2006 , EN 50130-4, EN 50131-6, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 60950-1
CPD	0786-CPD-20775
VdS VdS approval:	VdS 2110, VdS 2115, VdS 2122, VdS 2541
BMT	G200126
IMT	G102007
DIBt	approved
RoHS	compliant

Ordering data

Type	Order-Nr.	Description	Weight
24 V-150 W Power supply unit	V24230-Z6-A4	SV 24V-150W Power Supply Unit	1.083 kg

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