

Power Supply Unit 24 V/150 W

SV



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- Optimised for use with alarm signalling technology
 - 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 casing
 - CE, VdS and DIBt compliant

Application

Power Supply Unit 24 V/150 W generates a nominal supply-isolated output voltage of 24 V. It is equipped for operation with 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).

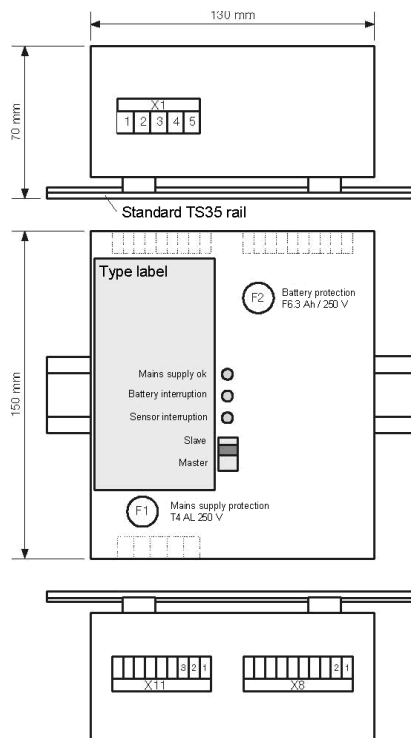
The power supply unit guarantees unrestricted operation, which means that the output voltage is not unacceptably impaired when supply transfers from one power source to another.

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	$V_n-15\%$	230	$V_n+10\%$	V_{AC}	
Input current	I_n		1.2		A_{AC}	PFC in accordance with EN61000-3-2
Input frequency	f_n		50		Hz	
Battery- / output voltage	V_a / V_b	26.0		28.4	V_{DC}	-36mV/°C, V_{min} bei 55 °C, V_{max} at -10 °C, SELV, ±300mV, residual ripple 2.5%
Battery- / output current	I_a / I_b	0		5.0	A_{DC}	short-circuit protection and no-load withstand 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.					
	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, EN 50130-4, EN 50131-6, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 60950
VdS	VdS 2110, VdS 2115, VdS 2122, VdS 2541
DIBt	approved

Ordering data

Typ	Art.-Nr.	Bezeichnung	Gewicht
Power supply unit 24 V/150 W	V24230-Z6-A3	Stromversorgung 24V/150W	1.083 kg

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