



RECTIFIER PSS30

In: 230VAC

Out: 24/48/60/110/220Vpc (max. 3.0kW) (24V version: max. 2.3kW)

KEY FEATURES

- Single-phase module 1/3 x 19", 6U with sinusoidal input current
- "Hot plug-in" capability
- CAN-Bus interface
- Temperature compensation of the charging voltage
- Digital display for output voltage, current and adjustment values
- Front side connectors
- Fan cooling

PRODUCT DESCRIPTION

A combination of modern AC to DC switching power conversion technology and a flexible 19" compatible mechanics such as the PSS offers many advantages and is suitable for a wide range of applications.

A constant voltage and current control circuit performs the correction of output voltage deviations due to transient deviations of the input voltage or load within less than 1.5ms and permits constant current operation down to continuous short circuit.

A microcontroller unit equipped with two control keys and digital displays at the front panel provides permanent monitoring of input and output voltage, output current and temperature. This feature offers easy adjustment and programming of output parameters and monitoring thresholds.

To increase the power supply, it is possible to operate the PSS modules in parallel connection.

For the control of all parameters and measurement values it is advantageous to use the monitoring device UPC3, which communicates with the modules via CAN-Bus interface.

APPLICATIONS

Rectifier module for DC power supply facilities with or without battery in all areas of industry, power generation and power distribution.



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See reverse side for specifications

Гуре	PSS30/24-80-CAN	PSS30/48-50-CAN	PSS30/60-40-CAN	PSS30/110-22.3- CAN	PSS30/220-11.1- CAN	PSS30/220-11.1 Relay	
Article code	100-030-140.00	100-030-150.00	100-030-160.00	100-030-170.00	100-030-180.00	100-030-180.01	
Nominal input voltage	230VAC +15/-20%	←	←	←	←	←	
Nominal input current	10.9AAC	12.9AAC	12.9AAC	12.9AAC	12.9AAC	12.9AAC	
nput frequency range	47-63Hz	←	←	←	+	←	
Power factor	>0.95 at Pnom <25% ; >0.97 at 50% >Pnom >25% ; >0.99 at 100% >Pnom >50%						
Efficiency	≥90%	≥91%	≥91%	≥91%	≥91%	≥91%	
nternal input fusing	MCB B16A	←	←	←	←	←	
Nominal output voltage	24VDC	48VDC	60VDC	108VDC	216VDC	216VDC	
Nominal output current (adjustable range)	80.0 (40-80)ADC	50.0 (25-50)ADC	40.0 (20-40)ADC	22.3 (11-22.3)ADC	11.1 (5.5-11.1)ADC	11.1 (5.5-11.1)AD	
Charge characteristic line	IV line acc. to DIN 41772/DIN 41773						
Dutput voltage Vo1 (Trickle charging)	27.2VDC ±1% (23.4 to 28.8V adjustable)	54.5VDC ±1% (46.6 to 57.6V adjustable)	68.1VDC ±1% (58.5 to 72V adjustable)	122.6VDC ±1% (105 to 130V ad- justable)	245.2VDC±1% (211 to 260V adjustable)	245.2VDC±1% (211 to 260V adjustable)	
Dutput voltage Vo2 (Boost charging)	28.8VDC ±1% (24 to 30V adjust-	57.6VDC ±1% (48 to 60V adjust- able)	72.0VDC ±1% (60 to 73V adjust- able)	129.6VDC ±1% (108 to 135V ad- justable)	259.2VDC±1% (216 to 270V adjustable)	259.2VDC±1% (216 to 270V adjustable)	
Dutput voltage Vo3 (Battery test)	22.2VDC ±1% (20.4 to 24V adjustable)	44.4VDC ±1% (40.8 to 48V adjustable)	55.5VDC ±1% (51 to 60V adjust- able)	99.9VDC ±1% (91.8 to 108V adjustable)	200VDC ±1% (184 to 216V adjustable)	200VDC ±1% (184 to 216V adjustable)	
/oltage ripple	≤20mV _{pp}	≤20mV _{pp}	≤20mV _{pp}	≤100mV _{pp}	≤200mV _{pp}	≤200mV _{pp}	
Psophometric acc. to CCITT-A	≤1.2mVrms	≤1.8mVrms	≤1.8mVrms				
Dynamic accuracy of the charging voltage	<3% Vnom at load transients between 10% - 90% - 10% Inom, recovery time t ≤1.5ms						
Short circuit protection	Continuously short circuit proof, 1x Inom						
Parallel operation	Yes, <20 pieces, load sharing appr. 10% Inom						
nternal decoupling at the output	no	←	←	←	←	←	
.ED signalling	Mains O.K. (green); V01 (green); V02 (green); 10 (yellow); V< (green); V> (red); Alarm (red)						
Digital displays	Output voltage, output current						
solated signalling contacts	"General fault" and "Vo<"						
Monitoring	Output voltage high/low, output voltage, output current, short circuit						
External functions	Active current sharing, boost charge and battery test function, temperature compensation of the charging voltage, external sensor lead for the output voltage, remote ON/OFF, optocoupler signal "Vo O.K.", "Mains O.K." and "Constant current operation"						
Communications interface	CAN-Bus interface f	or communication wit	h central monitoring u	unit			
Ambient temperature	Operation: -20°C to +45°C, storage: -40°C to +85°C						
Climatic conditions	IEC 721-3-3 class 3K3/3Z1/3B1/3C2/3S2/3M2						
Max. installation altitude //Audible noise	<1500m // <40dB (A) in 1m distance						
Construction	1/3 x 19" module, 6U, for mounting in sub racks acc. to DIN 41 494, front connectors						
Dimensions (W/H/D/D1) // Weight	142/262/405/384mm // approx. 12.4kg						
Cooling	Fan cooling	←	←	←	←	←	
Type of enclosure / Protection class	IP20 (mech.); 1 (electr.)						
Surfaces	Front panel: powder coating RAL 7035, black imprint; constructive parts: anodized						
Compliance to safety standards	EN 60950-1, VDE 0100 part 410, VDE 0110, EN 50178, EN 60146 // CE conformity: yes						
Compliance to EMC standards	EN 55011, EN 55022 class "B", EN 61000- 4 part 2- 5						

OPTIONS

Article Article Code 880-100-STK.01 Connector set for input/output <40A Connector set for input/output >40A 880-100-STK.02 Connector set for input/output , PSS 216V 880-100-STK.03 19" subrack, 7 U 880-MEC-BGT7.00

DIMENSIONS

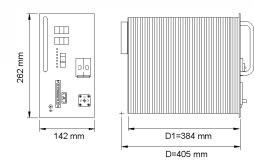
Pakistan

Philipp

Thailand

Tel: +66

Tel: +60 179 815 866/74 552



UAE

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Eltek Valere Industrial GmbH Schillerstrasse 16	Finland Eltek Energy Oy Tel: +35 820 779 88 20	Norway Eltek Valere AS Tel: +47 32 20 32 00	Spain Eltek Energia S.A. Tel: +34 914 920 660	Australia Eltek Pacific Pty Ltd Tel: +61 294 794 200
D-32052 Herford	France	Poland	Sweden	Bangladesh
Tel: +49 52 21 17 08 200	Eltek + SFEE SA. Tel: +33 562 340 930	Eltek Polska Sp. Z.o.o. Tel: +48 914 852 440	Eltek Energy AB Tel: +46 862 664 20	Eltek Energy Pte Ltd Tel: +88 017 2097 097
info.industrial@eltekvalere.com	Germany	Russia	Aiab DC Systems AB	India
www.eltekvalere.com	Eltek Valere Industrial GmbH Tel: +49 52 21 17 08 200 Eltek Valere Deutschil GmbH	Tel: +78 123 321 117	Tel: +46 54 68 81 50 United Kingdom Eltek Energy (UK) Ltd	Eltek SGS Pvt Ltd Tel: +91 124 221 00 18 Malaysia

Eltek Energy Slovakia s Tel: +42 144 520 1607

el: +49 694 2002

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mbia Colo USA Hong K Peru Brazil

Tel: +51 142 192 7