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Ohne Unterbrechung.



KESSUPS 92RT

Online double-conversion UPS



High performance online-security

The Online double-conversion UPS-series KESSUPS 92RT is the optimal solution for the permanent protection of your systems.

The 92RT offers a wide power range from 1000 VA to 6000 VA and stays very compact at the same time. Additional battery modules can be installed for longer backup time.

The UPS is available as combined rack-tower model with rotatable LCD. Stands and mounting brackets are also included.

Regarding the communication ports all KESSUPS 92RT models are up-to-date and equipped with RS-232 and USB port. In addition a smart slot for optional cards like SNMP, MODBUS-over-IP or dry contacts is available.

Features

- Online double-conversion UPS
- Output power factor = 1 ⁽¹⁾
- Combined rack-tower model
- Rotatable LCD
- Includes stands (tower) und mounting brackets (rack)
- Backup extensions available for all power ratings
- Communication interfaces for RS-232 and USB-HID ⁽²⁾
- Monitoring software for Windows, Linux and Mac
- Smart slot for SNMP / MODBUS-over-IP / dry contacts
- Line protection for ADSL / Fax / Modem ⁽²⁾
- Programmable outputs for critical / non-critical loads ⁽²⁾
- Power saving mode (ECO mode)
- Connectable in parallel up to 3 systems ⁽³⁾
- Frequency converter mode

(1) Excluding model 6 kVA with additional EBMs (2) For models up to 3 kVA
(3) For model 6 kVA

Models

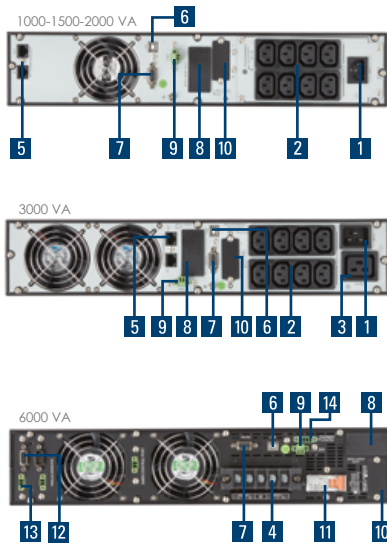
Model	Item number	Power (VA / W)	Dimensions (D x W x H mm)	Weight (kg)
KESSUPS-92RT-1000	11640030	1000 / 1000	410 x 438 x 88 (2U)	14
KESSUPS-92RT-1500	11640031	1500 / 1500	410 x 438 x 88 (2U)	16
KESSUPS-92RT-2000	11640032	2000 / 2000	510 x 438 x 88 (2U)	20
KESSUPS-92RT-3000	11640033	3000 / 3000	630 x 438 x 88 (2U)	28
KESSUPS-92RT-6000	11640034	6000 / 6000	600 x 438 x 88 (2U)	17

Model	Item number	Suitable for	Dimensions (D x W x H mm)	Weight (kg)
KESSUPS-EBM-36V	11601006	92RT-1000 92RT-1500	410 x 438 x 88 (2U)	22
KESSUPS-EBM-48V	11601007	92RT-2000	510 x 438 x 88 (2U)	29
KESSUPS-EBM-72V	11601008	92RT-3000	630 x 438 x 88 (2U)	42
KESSUPS-EBM-192V	11601009	92RT-6000	720 x 438 x 88 (2U)	54

Application

KESSUPS 92RT protects IT- and network environments as well as industrial applications for electrical failures of all sorts. The advanced UPS-solution works utterly efficient and guarantees a high level of security. Even systems with high energy demand are supplied reliably.

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Connections

1. Plug (IEC C14 for 1000 & 1500 VA models; IEC C20 for 2000 & 3000 VA models)
2. Sockets (8 x IEC C13), programmable for critical (x4) and non-critical (x4) loads
3. Socket IEC C19 (only for 3000 VA models)
4. Input / output terminals
5. Transient protector for ADSL / Fax / Modem
6. USB interface
7. RS-232 interface
8. Smart slot for modbus-over-IP / SNMP / dry contacts
9. Emergency stop (EPO)
10. Connection for battery module
11. Protective switch
12. Communication bus for parallel systems
13. Current signal bus for parallel systems
14. Digital Input / Output

TECHNICAL SPECIFICATIONS				
KESSUPS 92RT MODEL		1 - 3 kVA	6 kVA	
FORMAT		Tower / Rack		
TECHNOLOGY		Online double-conversion		
INPUT	Rated voltage	200 / 208 / 220 / 230 / 240 V ⁽¹⁾	208 / 220 / 230 / 240 V ⁽²⁾	
	Voltage range	110 - 300 V up to 60% load	110 - 300 V up to 50% load	
	Frequency	50 / 60 Hz (auto-detection)		
	Frequency range	± 10 Hz	± 4 Hz	
	Total harmonic distortion (THDv)	≤ 5 %	≤ 4 %	
OUTPUT	Power factor	1 ⁽³⁾		
	Rated voltage	200 / 208 / 220 / 230 / 240 V ⁽¹⁾	208 / 220 / 230 / 240 V ⁽²⁾	
	Voltage accuracy (battery mode)	± 1 %		
	Total harmonic distortion (THDv)	≤ 2 % linear load ≤ 4 % non-linear load	≤ 1 % linear load ≤ 4 % non-linear load	
	Synchronisation	With mains	± 3 Hz	± 4 Hz
		Without mains	± 0,1 Hz	
	Permissible overload (normal mode)	< 130 % for 5 min. < 140 % for 30 sec.	< 110 % for 10 min. < 130 % for 1 min.	
	Programmable sockets	Yes, for critical / non-critical loads (4/4)	No	
	Performance	Normal mode	≥ 89 - 91%	≥ 93 - 94%
		ECO mode	≥ 95 - 97%	≥ 99%
Parallel	No	Yes, up to 3 units ⁽⁴⁾		
BATTERY	Battery type	Pb-Ca sealed, AGM, maintenance-free		
	Protection	Against power surges, undervoltages and alternating current components		
CHARGER	Charge type	I/U (constant current / constant voltage)		
	Charge time	3 hours to 95 %	7 - 9 hours to 90%	
	Temperature voltage compensation	Yes		
COMMUNICATION	Interface	USB-HID / RS-232	USB / RS-232 / relay	
	Monitoring software	For Windows, Linux and Mac		
	Slot	SNMP / Modbus-over-IP / Dry contacts		
OTHER FUNCTIONS	Cold start	Yes, start through batteries		
	Emergency stop (EPO)	Yes		
	Transient protector for ADSL / Fax / Modem	Yes	No	
	Frequency converter	Yes ⁽⁵⁾	Yes ⁽⁶⁾	
	Operating temperature	0°C - +40°C (20°C for batteries)		
GENERAL	Relative humidity	Up to 95 %, non-condensing		
	Operating altitude	2.400 m a.s.l. (power reduction up to 5.000 m)		
	Noise level at 1 metre	< 50 - 55 dB	< 58 - 60 dB	
	Safety	EN-62040-1: 2008		
STANDARDS	EMC	EN-62040-2: 2006 (C2)	EN-62040-2: 2006 (C3)	
	Operating	EN-62040-3: 2011		
	Quality and Environmental Management	ISO 9001 und ISO 14001		

(1) 80% power reduction for 200 or 208 V models
 (3) Excluding 6 kVA models with additional EBMs
 (5) 78% power reduction

(2) 90% power reduction for 208 V models
 (4) 90% power reduction
 (6) 60% power reduction