



REHLKO *EW* 6000/M

Modular three-phase uninterruptible power supply

(60–1200 kW)

Parallelable up to 8 units

Modular *protection*, compact footprint.

An advanced, energy efficient modular three-phase UPS for medium power applications in the IT, data, financial, commercial and light industrial sectors.

The Rehiko EW 6000/M offers the enhanced resilience and availability of a modular UPS solution combined with high (97%), online energy efficiency for reduced operating costs.

A choice of module and frame sizes allows right-sizing and scalability whilst high power density (up to 667 kVA/m²) minimises the system's footprint.



REHLKO EW 6000/M

60 -1200 kW, parallelable to 8 frames



60-120 kW

100-600 kW

1000-1200 kW



30kW Module
Dimensions (WxDxH):
440 x 640 x 86mm



50kW Module
Dimensions (WxDxH):
440 x 640 x 130mm



100kW Module
Dimensions (WxDxH):
440 x 750 x 130mm

Advanced Functionality

- | Advanced parallel module technology increases resilience
- | Online double conversion with low THDi
- | Dual system control card
- | Emergency Power Off (EPO)
- | Self-load test
- | Battery cold start
- | Frequency converter function

Cost-effective Operation

- | Continuous online (VFI) mode efficiency up to 97%
- | 1.0 (unity) output power factor
- | Advanced module sleep mode maximises efficiency when loads are reduced
- | Intelligent fan speed control
- | ECO mode operation

Exceptional Flexibility

- | Add modules and frames as facility load grows
- | Variety of outputs, diagnostics and communications
- | Programmable dry contacts
- | Variety of battery options
- | Able to handle 100% unbalanced loads

Technical specification

(120–600 kW)

Max system size, kW	120 kW	200 kW	300 kW	400 kW	500 kW	600 kW
Module size, kW	30	50				

Input

Rated Voltage (Vac)	380/400/415					
Voltage range (Vac)	L:L 138–485					
Input Frequency (Hz)	40–70					
Bypass Voltage Range (Vac)	–15% (–20%/–30% optional) to +15%(+10%/+20% optional)					
Power Factor	≥0.99					
THDi	3% (linear load)					
Phase	3φ4W+PE					
Battery Voltage (Vdc)	±192 (±168 to ±276 selectable)	±192 (±180 to ±276 selectable)	±240 (±168 to ±276 selectable)			
Charging Current (A)	N x 10 Maximum (N: the number of power modules)					

Output

Capacity (kVA)	120	200	300	400	500	600
Power Factor	1					
Phase	3φ4W+PE					
Waveform	Sine wave					
Voltage (Vac)	L–L:380, 400, 415±1%					
Frequency (Hz)	50/60±0.2% (battery mode)					
Three Phase Difference	≤1 degrees					
THDv	≤1% (linear load, full load), ≤4% (nonlinear load, full load)					
Static Bypass Transfer Time	0					
Max. System Efficiency	97%					
Parallel Mode	Advanced parallel technology (removes fixed master–servant dependency), N+1 redundancy					
Overload Capacity	106–110% load for 60mins, 111%–130% load for 10mins, 131%–150% load for 1min, 151%–200% load for 200ms					

General

Working Temperature	–5°C to +40°C, UPS system. Note – battery life and performance will vary with ambient temperature.						
Storage Temperature	–40°C to +70°C, UPS system only.						
Relative Humidity	0% to 95%, non–condensing						
Battery Type	Lead–acid batteries and lithium iron phosphate batteries						
Communication Interface	RS485, RS232, dry contact (SNMP optional)						
Noise (dB)	<65	<70					
Dimension (WxDxH) (mm)	600x860x2000			1200x860x2000			
Weight (kg)	Cabinet	180	224	236	427		
	Bypass Module	17	19	25	25	31	31
	Power Module, each	27	33				

Specification is subject to change without prior notice

| Additional optional accessories and system customisation is available. Consult Rehlko for details.

| To obtain the redundancy and resilience benefits of a modular system it is not recommended to configure with only a single module.

Technical specification

(400–1200 kW)

Max system size, kW	400 kW	500 kW	600 kW	800 kW	1000 kW	1200 kW
Module size, kW	100					
Input						
Voltage range (Vac)	138–485 (324–485 no derating, 138–323 linear derating)					
Frequency range (Hz)	40–70					
Power Factor	≥0.99					
THDi	2% (linear load)					
Phase	3Ph+N+PE/3Ph+PE (optional)					
Bypass synchronization tracking range (Hz)	50/60±4					
Bypass input voltage range (Vac)	304–438					
Battery Voltage (VDC)	±180 to ±300					
Output						
Power Factor	1.0					
Phase	3Ph+N+PE					
Voltage (VAC)	380/400/415±%					
Frequency (Hz)	50/60±0.1%					
THDv	≤1% (linear load), ≤3% (non-linear load)					
Max. System Efficiency	97%					
Overload Capacity	106–110% load for 60mins, 111%–130% load for 10mins, 131%–150% load for 1min, 151%–200% load for 200ms					
Static Bypass Transfer Time	0					
Cool Start	Yes					
General						
Working Temperature	–5°C to +40°C, UPS system. Note – battery life and performance will vary with ambient temperature.					
Storage Temperature	–40°C to +70°C, UPS system only.					
Relative Humidity	0% to 95%, non-condensing					
Battery Type	Lead-acid batteries and lithium iron phosphate batteries					
Communication Interface	RS232, RS485, Dry contact, MODBUS, SNMP (optional)					
Alarm	Input abnormal, battery low-voltage, output overload, UPS failure					
Protection	Short-circuit, overload, over-temperature, battery under voltage, input under voltage					
Noise (dB)	<70					
Dimension (WxDxH) (mm)	1200x1000x2000			1400x1000x2000	1800x1000x2000	
Weight (kg)	Cabinet	480	506	580	731	
	Bypass Module	32	50	60	120	
	Power Module, each	55				

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Exceptional 24/7/365
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Rehiko is the new name for Kohler Uninterruptible Power