

TECHNICAL DATA SHEET

UNIBLOCK UB-V 1800 with PB21

Highlights UNIBLOCK UB-V

The new UB-V Series UPS is designed to provide exceptional load handling properties for use in even the most demanding of industrial applications, combining cost-effective ownership with high reliability to deliver a fast return on investment without compromise.

- High reliability / MTBF
- High power density – single units 1000kVA to 3600kVA
- Exceptional efficiencies up to 98% (IEC 62040-3)
- Suitable for use in industrial environments.
- German engineering and manufacturing
- Wide leading and lagging load power factor range
- Handling of load steps up to 100%
- Wide input voltage tolerance (up to -50%)
- Suitable for export of embedded power
- Isolation of harmonics between the load and mains
- Low and Medium Voltage versions
- Kinetic or battery energy storage
- Stabilisation of gas/diesel genset or gas turbines



Nothing protects quite like Piller

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Output

Rated power	kVA	2000
Rated active power	kW	1800
Rated voltage	V	400 / 231 (±5% adjustable)
Rated frequency	Hz	50
Rated current	A	2887
Rated Power factor		0,9
Voltage stability		
■ static with symmetrical load	%	±1
■ dynamic with 50% load change (PF 1,0)	%	±1
■ dynamic with 50% load change (PF 0,9)	%	±3
■ dynamic with 50% load change (PF 0,8)	%	±5
Dynamic settling time (± 2%)	ms	200
Frequency stability		
■ static self controlled	%	0,1
■ on mains ¹	%	1
■ dynamic with 100% load change	%	1
Voltage distortion (EN 62040-1)		
■ symmetrical linear load (Ph-Ph/Ph-N)	%	1,5 / 2,5
Overload capability (normal operation)		
■ 1 hour	%	10
■ 2 minutes	%	50
Maximum crest factor		limitless for harmonic loads
Phase angle (symmetrical load)	°	120 ±1
Maximum permissible unbalance ²	%	100
Maximum short-circuit current (rms)	kA	26,7 (ca. 9x rated current) for 10ms

¹ According to the adjusted tolerance for the mains frequency

² Load unbalance capacity = different loading of the individual phases in a three-phase AC system.

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Input

Rated voltage	V	400 / 231
Rated frequency	Hz	50
Rated current	A	2765
Power factor ¹		0,97
Permissible voltage deviation		
■ continuous	%	±10
■ short-time	%	-20
■ dynamic	%	-50
Frequency tolerance	%	±1 (adjustable ±5%)
Harmonic attenuation (input to output and output to input)	%	> 99
Current distortion	%	< 3
Synchronisation time after mains return	s	< 3
Starting current	A	1000
Starting time	s	30
Maximum current ^{2 3}	A	3258
Max. reverse current on mains short-circuit	A	5322

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Backup time	s	11
re-charge time	s	126 (adjustable* 63 - 252s)

¹ at nominal voltage and load >10%

² Individual input protection is required.

³ at 90% voltage and nominal charging power

* Value affects the maximum input current

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General data

Efficiency (at 100% load, cos ϕ 1,0)	%	96,9
Losses (at 100% load, cos ϕ 1,0)	kW	58
Max. heat dissipation	kW	97
Wall-distance backside		not required
Standard colour		RAL 5012
Noise level (at distance of 1m)	dB(A)	
with silencer	dB(A)	77
Ambient temperature	°C / °F	0-40 / 32-104
■ Daily mean average	°C / °F	≤ 35 / ≤ 95
Ambient humidity (without condensation)	%	0-95
Installation altitude (above mean sea level)		
■ up to 1000m		without any derating
■ 1000m - 2000m		5% derating
Protection type (DIN/VDE 0470 part 11/92 IEC 529)		IP 20
Radio interference level (IEC 62040-2)		class C3
Cable connection		from top and bottom possible
Accessibility		front
Parallel configuration		up to 32 modules

Dimensions / Weight

■ Width	mm (in.)	5800 (228,346)
■ Depth	mm (in.)	1320 (51,968)
■ Height	mm (in.)	2700 (106,299)
■ Weight	kg (lb.)	22500 (49603,5)

Communication

- APOCONNECT+ (remote diagnostics)
- Web Server
- OPC- server
- Modbus / TCP
- SNMP
- Relay contacts

Remote information system

- Smart device APP, iOS and Android based
- Allows access to high level operational data and status information
- Working in a high secure environment
- Allows to receive event / alarm information by push notification service

Control Panel

- Capacitive Touch Panel
- Size: 12 inches
- Resolution: WXGA 1280 x 800 pixels
- USB Port
- Ethernet Port
- SD-Card slot

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Issue:
29.Jul.22

Modifications reserved


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