TECHNICAL DATA UNIBLOCK UBTD 2500

Diesel UPS 2500kVA / 2000kW, 400V / 50Hz with POWERBRIDGE PB21

Output data - UPS output

Output rated power	2500 kVA 2000 kW
Output rated voltage	400/230 V
Output rated current	3608 A
Power factor	cos φ 0,8
Static voltage deviation	±1% with symmetrical load
Output rated frequency	50 Hz
Overload capacity	10% for 1 h, 50% for 2 min
Short-circuit current	ca. 52.3 kA for 10 ms ca. 10.8 kA for 5 s
Permissible load crest factor[1]	Limitless for harmonic loads
Phase angle	120° ±1° with symmetrical load
Load unbalance capability[2]	100%
Phase angle output to input	< 33°

Input data – UPS input

Rated voltage	400/230 V
Permissible static voltage deviation	±10% - 20% for 10 min
Permissible dynamic voltage deviation	- 50%
Rated frequency	50 Hz
Permissible frequency deviation	±1% (adjustable to ± 5%)
Rated current	3046 A
Max. current[3] (with rated load 10% undervoltage and 25% charge current)	4312 A
Power factor	cos φ 0,99
Harmonic attenuation	> 99% (input to output and output to input)
Max. input current on mains short-circuit	ca. 6.2 kA
Resynchronisation time	< 3 s

[1] Crest factor = peak factor = ratio between peak factor and RMS value of a periodic quantity (voltage, current).
[2] Load unbalance capability = different loading of the individual phases in a three-phases AC system.
[3] Individual input protection is required

General data

Operating temperature	0 °C to 40 °C (daily average ≤35 °C)
Rel. Humidity relative	0 % to 95 % (non-condensing)
Max. altitude	1000 m
Airflow	12000 m^3/h
Max. back pressure	100 Pa
Quality standard	DIN EN 62040
RFI protection	DIN EN 50091-2
Degree of protection	IP 20
Paint finish	RAL 5012
Rated bridging time	10 s
Re-charge time	adjustable – standard setting 12x max. full load discharge time
Efficiency[1]	95,8 %
Losses[1]	87 kW
Dimensions (W x H x D)	4050mm x 2300mm x 1320mm

Specifications complied with
DIN EN 50091-2, IEC 62040-2, VDE 0558 part 520
DIN EN 50178, VDE 0160
DIN EN 60034-1, IEC 60034-1, VDE 0530 part 1
DIN EN 60034-2, IEC 60034-2, VDE 0530 part 2
DIN EN 60034-9, IEC 60034-9, VDE 0530 part 9
DIN EN 60146-1-1, IEC 60146-1-1, VDE 0558 part 11
DIN EN 60204-1, IEC 60204-1, VDE 0113 part 1
DIN EN 60439-1, IEC 60439-1, VDE 0660 part 500
DIN EN 60445, IEC 60445, VDE 0197
DIN EN 60664-1, IEC 60664-1, VDE 0110 part 1
DIN EN 60865-1, IEC 865-1, VDE 0103
DIN EN 61000-4-2, IEC 61000-4-2, VDE 0847 part 4-2
DIN EN 61000-4-4, IEC 61000-4-4, VDE 0847 part 4-4
DIN EN 61000-4-5, IEC 61000-4-5, VDE 0847 part 4-5
DIN EN 61140, IEC 61140, VDE 0140 part 1
DIN EN 62040-1-1, IEC 62040-1-1, VDE 0558 part 511
DIN EN 62040-1-2, IEC 62040-1-2, VDE 0558 part 512
DIN EN 62040-3, IEC 62040-3, VDE 0530 part 530
DIN EN ISO 3746, ISO 3746,
VDE 0100

[1] For rated load and cos φ = 1. Data vary for other operating modes.