

Daker DK

CONVERTIBLE
UPS
from 1000
to 10000 VA



Daker DK CONVENTIONAL SINGLE PHASE UPS

On-Line double conversion UPS that can be used in both tower and rack configurations

The main parameters of the system and the status of the UPS, including the battery charge level and faults, are displayed on the LCD screen.

Additional battery cabinets are available to increase the backup time of the UPS. A charger can be added in all battery cabinets for fast, safe charging.



Reversible screen

With the reversible screen, the Daker DK UPS can be used in both tower and 19» rack configuration.

Daker Dk

Conventional UPS - Single phase On-line double conversion VFI



The main parameters of the UPS, including the battery charge level and faults, are displayed on the LCD screen on the front panel. The integrated communication software not only controls the UPS and its switch-off if there is a malfunction, and enables the user to test the main functions remotely, communicate via SNMP/Internet/network adaptor and access the functions of the UPS via the Internet, but can also send the user an SMS if specific events occur. The internal extension connector enables a WEB/SNMP card or a relay interface to be installed which provides insulated contacts for applications on industrial control panels or remote alarm panels. If there is an electronic fault, overload, overheating or for scheduled maintenance operations, the automatic or manual (optional) bypass ensures continuity of the power supply for critical loads. A bypass switch is available for maintenance.

| Pack | Cat. Nos. | CONVERTIBLE UPS WITH BATTERIES | | | |
|------|-----------------|--------------------------------|------------------|-------------------|-------------|
| | | NOMINAL POWER (VA) | ACTIVE POWER (W) | BACKUP TIME (min) | WEIGHT (kg) |
| | 3 100 50 | 1000 | 800 | 10 | 16 |
| | 3 100 51 | 2000 | 1600 | 10 | 29.5 |
| | 3 100 52 | 3000 | 2400 | 8 | 30 |
| | 3 100 53 | 4500 | 4050 | 6 | 60 |
| | 3 100 54 | 6000 | 5400 | 4 | 60 |

| Pack | Cat. Nos. | MISCELLANEOUS ACCESSORIES |
|------|-----------------|--|
| | | DESCRIPTION |
| | 3 109 50 | Additional 200 W charger (for Daker DK 1000-2000-3000) |
| | 3 109 54 | Additional 1000 W charger (for Daker DK 4500-6000-10000) |
| | 3 109 52 | Rack support bracket kit |
| | 3 109 53 | External manual bypass (for Daker DK 1000-2000-3000) |
| | 3 109 69 | Volt-free contact card |

| CONVERTIBLE UPS WITHOUT BATTERIES | | | | |
|-----------------------------------|--------------------|------------------|-------------------|-------------|
| | NOMINAL POWER (VA) | ACTIVE POWER (W) | BACKUP TIME (min) | WEIGHT (kg) |
| 3 100 56 | 4500 | 4050 | - | 25 |
| 3 100 57 | 6000 | 5400 | - | 25 |
| 3 100 58 | 10000 | 9000 | - | 26 |
| 3 100 59* | 10000 | 9000 | - | 26 |

* 3-1 version

| BATTERY CABINET (WITH BATTERIES) | |
|----------------------------------|---|
| | DESCRIPTION |
| 3 107 69 | Battery cabinet for 3 100 50 (12 x 12 V, 7.2 Ah batteries) |
| 3 107 70 | Battery cabinet for 3 100 51 (12 x 12 V, 7.2 Ah batteries) |
| 3 107 71 | Battery cabinet for 3 100 52 (12 x 12 V, 9 Ah batteries) |
| 3 107 72 | Battery cabinet for 3 100 56 and 3 100 57 (20 x 12 V, 7.2 Ah batteries) |
| 3 107 66 | Battery cabinet for 3 100 58 (20 x 12 V, 9 Ah batteries) |

| BATTERY CABINET (EMPTY) | |
|-------------------------|---|
| | DESCRIPTION |
| 3 107 50 | Battery cabinet for 3 100 50 (for 12 x 12 V, 7.2 Ah batteries) |
| 3 107 51 | Battery cabinet for 3 100 51 (for 12 x 12 V, 7.2 Ah batteries) |
| 3 107 52 | Battery cabinet for 3 100 52 (for 12 x 12 V, 9 Ah batteries) |
| 3 107 53 | Battery cabinet for 3 100 56 and 3 100 57 (for 20 x 12 V, 7.2 Ah batteries) |
| 3 107 54 | Battery cabinet for 3 100 58 (for 20 x 12 V, 9 Ah batteries) |

NOTE: The backup times, expressed in minutes, are measured under optimum operating conditions.

Daker Dk

Conventional UPS - Single phase On-line double conversion VFI

| Cat. Nos. | 3 100 50 | 3 100 51 | 3 100 52 | 3 100 53 | 3 100 56 | 3 100 54 | 3 100 57 | 3 100 58 | 3 100 59 |
|--|---|------------------|------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------|
| General characteristics | | | | | | | | | |
| Nominal power (VA) | 1000 | 2000 | 3000 | 4500 | | 6000 | | 10000 | 10000 |
| Active power (W) | 800 | 1600 | 2400 | 4050 | | 5400 | | 9000 | 9000 |
| Technology | On-line double conversion VFI-SS-111 | | | | | | | | |
| Waveform | Sinusoidal | | | | | | | | |
| Architecture | Convertible tower and 19" rack | | | | | | | | |
| Input characteristics | | | | | | | | | |
| Input voltage | 230 V | | | | | | | | 380V 3F+N |
| Input frequency | 50-60 Hz \pm 5% autosensing | | | | | | | | |
| Input voltage range | 160 V - 288 V full load | | | | | | | | 277V - 485V |
| THD of input current | < 3% | | | | | | | | |
| Input power factor | > 0.99 | | | | | | | | |
| Compatibility with gensets | Configurable for synchronism between the input and output frequencies, even for the highest frequency ranges, \pm 14% | | | | | | | | |
| Output characteristics | | | | | | | | | |
| Output voltage | 230 V \pm 1% | | | | | | | | |
| Output frequency (nominal) | 50/60 Hz (configurable via LCD panel) \pm 0.1% | | | | | | | | |
| Peak factor | 1:3 | | | | | | | | |
| THD of output voltage | < 3% with linear load | | | | | | | | |
| Output voltage tolerance | \pm 1% | | | | | | | | |
| Bypass | Automatic bypass and optional external manual bypass | | | | | | | | |
| Batteries | | | | | | | | | |
| Backup time extension | Yes | | | | | | | | |
| Number of batteries | 3 | 6 | 6 | 20 | - | 20 | - | - | - |
| Battery range type/voltage | 12V 7.2 Ah | 12V 7.2 Ah | 12V 9 Ah | 12V 5 Ah | - | 12V 5 Ah | - | - | - |
| Backup time (min) | 10 | 10 | 8 | 6 | - | 4 | - | - | - |
| Communication and management | | | | | | | | | |
| Screen and signalling | Four buttons and four LEDs for real-time control of the status and the main parameters of the UPS | | | | | | | | |
| Communication ports | RS232 and USB serial ports | | | RS232 serial ports | | | | | |
| Remote control | Available | | | | | | | | |
| Connector for network interface | SNMP | | | | | | | | |
| Back feed protection | yes | | | | | | | | |
| Emergency power off (EPO) | yes | | | | | | | | |
| Mechanical characteristics | | | | | | | | | |
| Dimensions (H x W x D) (mm) | 440x88 (2U) x405 | 440x88 (2U) x650 | 440x88 (2U) x650 | 440x176 (4U) x680 | 440x88 (2U) x680 | 440x176 (4U) x680 | 440x88 (2U) x680 | 440x132 (3U) x680 | |
| Net weight (kg) | 16 | 29.5 | 30 | 52 | 25* | 52 | 25* | 26* | |
| Dimensions of battery cabinet H x W x D (mm) | 440x176 (4U) x405 | 440x88 (2U) x650 | 440x88 (2U) x650 | - | 440x132 (3U) x680 | - | 440x132 (3U) x680 | 440x132 (3U) x680 | |
| Ambient conditions | | | | | | | | | |
| Operating temperature (°C) | 0 \div 40°C | | | | | | | | |
| Protection index | IP 21 | | | | | | | | |
| Relative humidity (%) | 20 to 80% | | | | | | | | |
| Noise at 1 m (dBA) | < 50 | | | | | | | | |
| Heat dissipation (BTU/h) | 490 | 654 | 818 | 982 | | 1310 | | 1636 | |
| Certifications | | | | | | | | | |
| Reference product standards | EN 62040-1, EN 62040-2, EN 62040-3 | | | | | | | | |

* Weight without batteries

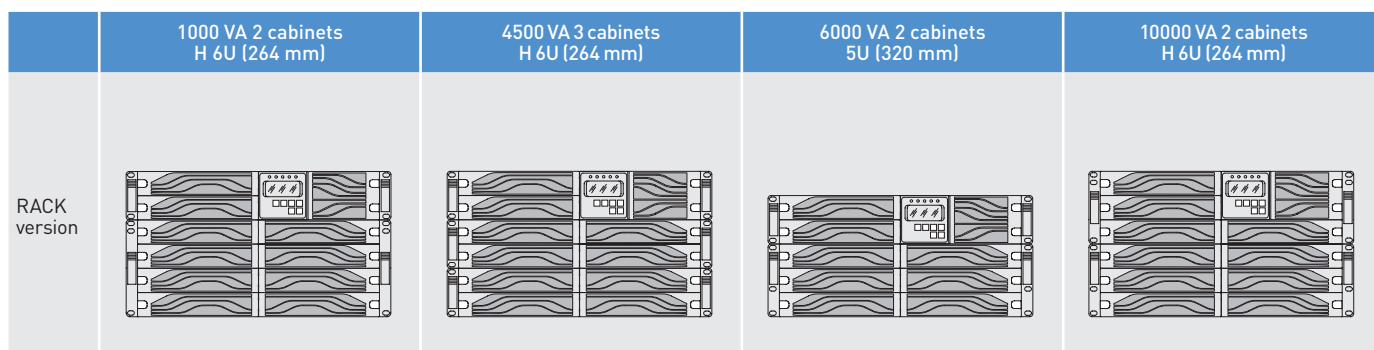
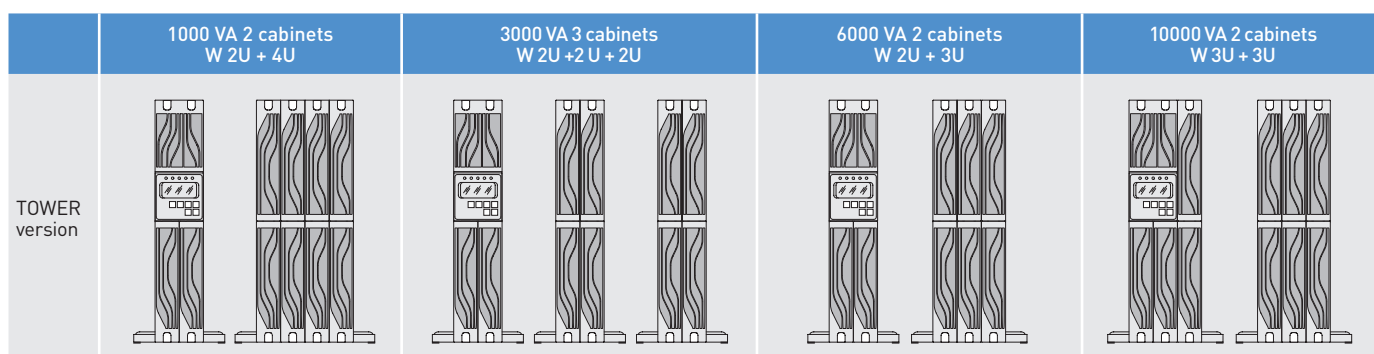
NOTE: The backup times, expressed in minutes, are measured under optimum operating conditions.

Daker Dk

Long backup time table

| Model | Power | Backup time | Dimensions and number of cabinets H x W x D (mm) | Cat. Nos. |
|---------------|----------|--|---|--------------------------|
| Daker DK | 1000 VA | 10' | 440 x 88 x 405 | 3 100 50 |
| | | 1h 22' | 440 x 88 x 405 + 440 x 176 x 405 | 3 100 50 + 3 107 69 |
| | | 2h 44' | 440 x 88 x 405 + 440 x 176 x 405 (x2) | 3 100 50 + 3 107 69 (x2) |
| | | 4h 22' | 440 x 88 x 405 + 440 x 176 x 405 (x3) | 3 100 50 + 3 107 69 (x3) |
| | | 5h 52' | 440 x 88 x 405 + 440 x 176 x 405 (x4) | 3 100 50 + 3 107 69 (x4) |
| | 2000 VA | 10' | 440 x 88 x 650 | 3 100 51 |
| | | 39' | 440 x 88 x 650 (x2) | 3 100 51 + 3 107 70 |
| | | 1h 22' | 440 x 88 x 650 (x3) | 3 100 51 + 3 107 70 (x2) |
| | | 1h 57' | 440 x 88 x 650 (x4) | 3 100 51 + 3 107 70 (x3) |
| | | 2h 44' | 440 x 88 x 650 (x5) | 3 100 51 + 3 107 70 (x4) |
| | 3000 VA | 8' | 440 x 88 x 650 | 3 100 52 |
| | | 34' | 440 x 88 x 650 (x2) | 3 100 52 + 3 107 71 |
| | | 1h 6' | 440 x 88 x 650 (x3) | 3 100 52 + 3 107 71 (x2) |
| | | 1h 33' | 440 x 88 x 650 (x4) | 3 100 52 + 3 107 71 (x3) |
| | | 2h 3' | 440 x 88 x 650 (x5) | 3 100 52 + 3 107 71 (x4) |
| | 4500 VA | 10' | 440 x 88 x 650 + 440 x 132 x 680 | 3 100 56 + 3 107 72 |
| | | 31' | 440 x 88 x 650 + 440 x 132 x 680 (x2) | 3 100 56 + 3 107 72 (x2) |
| | | 56' | 440 x 88 x 650 + 440 x 132 x 680 (x3) | 3 100 56 + 3 107 72 (x3) |
| | | 1h 30' | 440 x 88 x 650 + 440 x 132 x 680 (x4) | 3 100 56 + 3 107 72 (x4) |
| | 6000 VA | 10' | 440 x 88 x 650 + 440 x 132 x 680 | 3 100 57 + 3 107 72 |
| 29' | | 440 x 88 x 650 + 440 x 132 x 680 (x2) | 3 100 57 + 3 107 72 (x2) | |
| 49' | | 440 x 88 x 650 + 440 x 132 x 680 (x3) | 3 100 57 + 3 107 72 (x3) | |
| 1h 11' | | 440 x 88 x 650 + 440 x 132 x 680 (x4) | 3 100 57 + 3 107 72 (x4) | |
| 10000 VA | 7' | 440 x 132 x 650 + 440 x 132 x 680 | 3 100 58 + 3 107 66 | |
| | 18' | 440 x 132 x 650 + 440 x 132 x 680 (x2) | 3 100 58 + 3 107 66 (x2) | |
| | 29' | 440 x 132 x 650 + 440 x 132 x 680 (x3) | 3 100 58 + 3 107 66 (x3) | |
| | 42' | 440 x 132 x 650 + 440 x 132 x 680 (x4) | 3 100 58 + 3 107 66 (x4) | |
| | 56' | 440 x 132 x 650 + 440 x 132 x 680 (x5) | 3 100 58 + 3 107 66 (x5) | |
| Daker DK3 - 1 | 10000 VA | 7' | 440 x 132 x 650 + 440 x 132 x 680 | 3 100 59 + 3 107 66 |
| | | 18' | 440 x 132 x 650 + 440 x 132 x 680 (x2) | 3 100 59 + 3 107 66 (x2) |
| | | 29' | 440 x 132 x 650 + 440 x 132 x 680 (x3) | 3 100 59 + 3 107 66 (x3) |
| | | 42' | 440 x 132 x 650 + 440 x 132 x 680 (x4) | 3 100 59 + 3 107 66 (x4) |
| | | 56' | 440 x 132 x 650 + 440 x 132 x 680 (x5) | 3 100 59 + 3 107 66 (x5) |

NOTE: The backup times, expressed in minutes, are measured under optimum operating conditions.





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