

# 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)
	<b>3 100 50</b>	1000	800	10	16
	<b>3 100 51</b>	2000	1600	10	29.5
	<b>3 100 52</b>	3000	2400	8	30
	<b>3 100 53</b>	4500	4050	6	60
	<b>3 100 54</b>	6000	5400	4	60

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

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

\* 3-1 version

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

BATTERY CABINET (EMPTY)	
	DESCRIPTION
<b>3 107 50</b>	Battery cabinet for 3 100 50 (for 12 x 12 V, 7.2 Ah batteries)
<b>3 107 51</b>	Battery cabinet for 3 100 51 (for 12 x 12 V, 7.2 Ah batteries)
<b>3 107 52</b>	Battery cabinet for 3 100 52 (for 12 x 12 V, 9 Ah batteries)
<b>3 107 53</b>	Battery cabinet for 3 100 56 and 3 100 57 (for 20 x 12 V, 7.2 Ah batteries)
<b>3 107 54</b>	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
<b>General characteristics</b>									
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								
<b>Input characteristics</b>									
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%								
<b>Output characteristics</b>									
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								
<b>Batteries</b>									
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	-	-	-
<b>Communication and management</b>									
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								
<b>Mechanical characteristics</b>									
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	
<b>Ambient conditions</b>									
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	
<b>Certifications</b>									
Reference product standards	EN 62040-1, EN 62040-2, EN 62040-3								

\* Weight without batteries

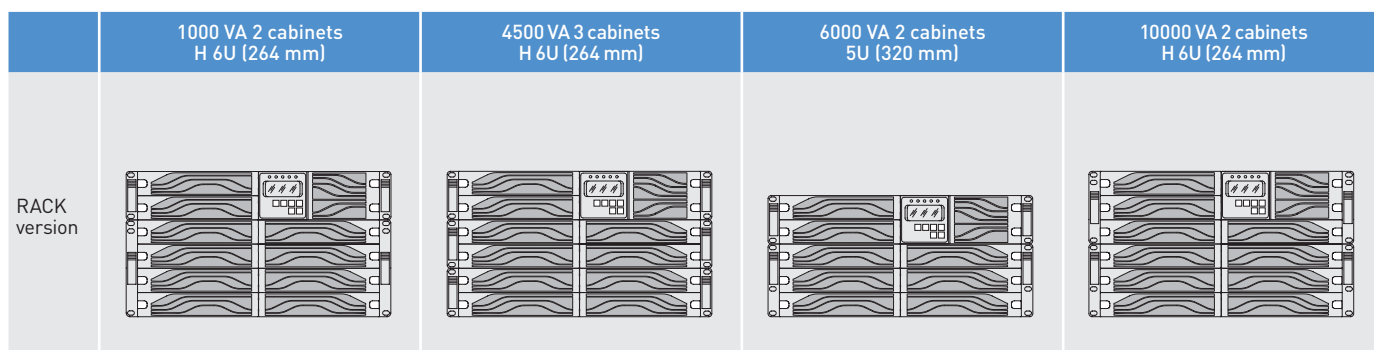
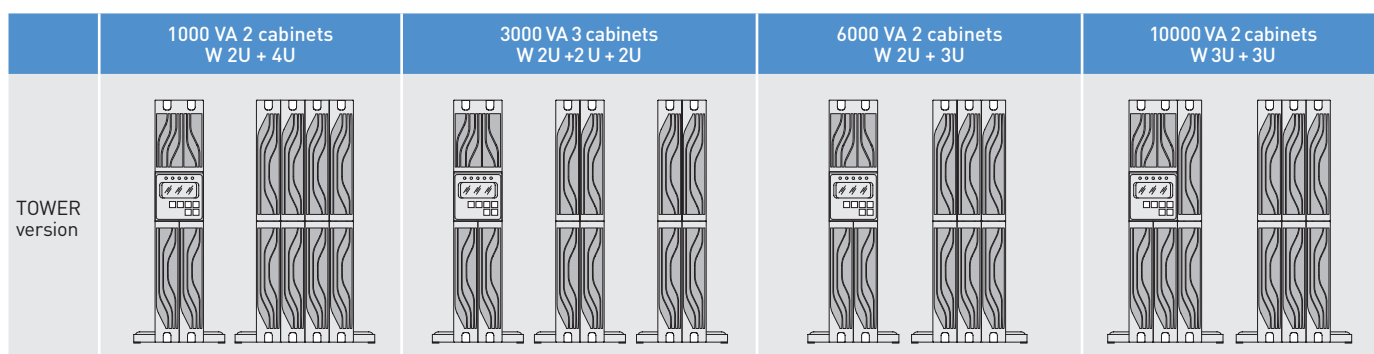
NOTE: The backup times, expressed in minutes, are measured under optimum operating conditions.

# 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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