

Daker DK Plus

CONVERTIBLE
RACK-TOWER UPS
from 1 to 10 kVA



GLOBAL SPECIALIST IN ELECTRICAL
AND DIGITAL BUILDING INFRASTRUCTURES



Daker DK Plus

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

CONVERTIBLE SINGLE PHASE UPS

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.

The models from 5 to 10 kVA have power factor 1 with an efficiency up to 94%.



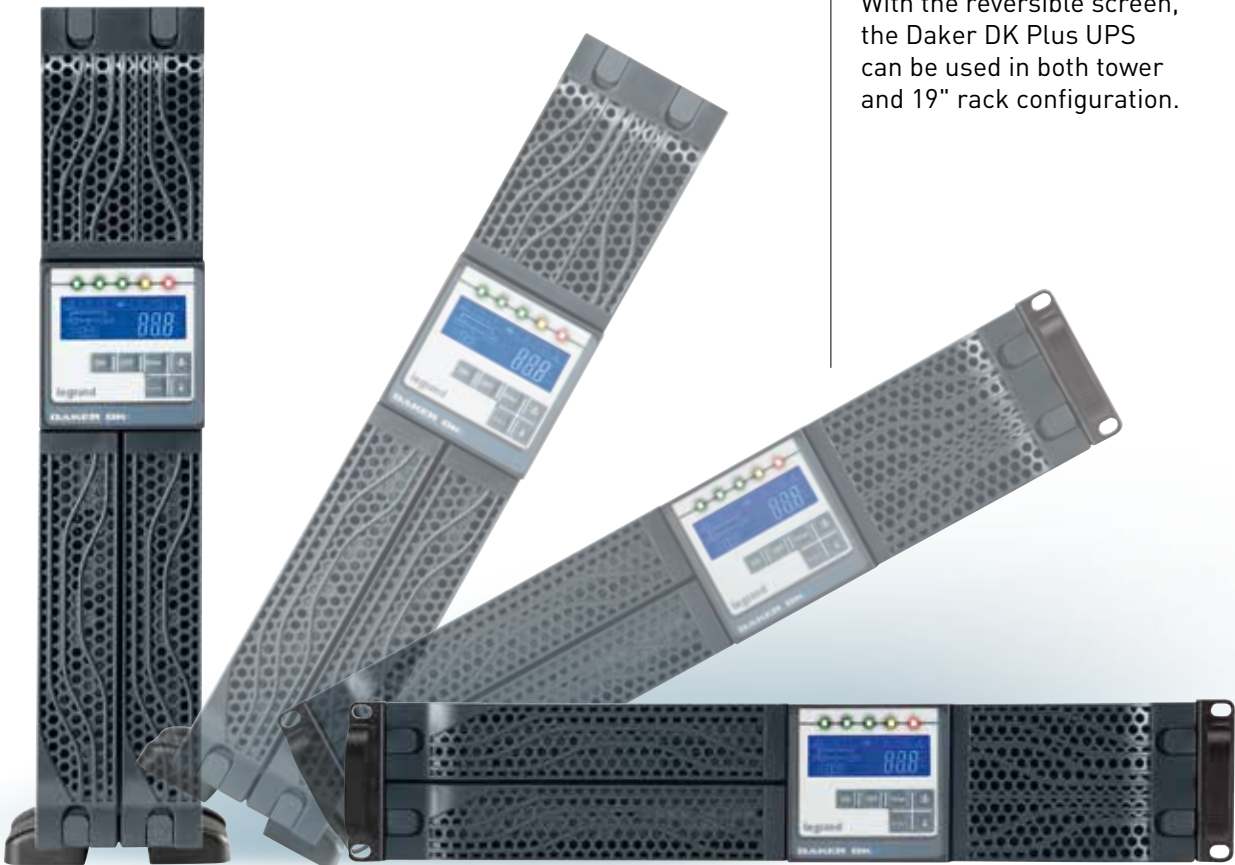
Battery cabinets

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 Plus UPS can be used in both tower and 19" rack configuration.



DAKER DK PLUS

UPS - On-line double conversion VFI



3 101 74



3 101 77



3 106 64

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.

Cat. Nos.	Convertible UPS with batteries			
	Nominal power (VA)	Active power (W)	Backup time (min)	Weight (kg)
3 101 70	1000	900	9	16
3 101 71	2000	1800	10	29,5
3 101 72	3000	2700	7	30
3 101 73	5000	5000	6	60
3 101 74	6000	6000	5	60

Cat. Nos.	Battery cabinet (empty)	
	Description	
3 106 65	Battery cabinet for 3 101 70	
3 106 66	Battery cabinet for 3 101 71	
3 106 67	Battery cabinet for 3 101 72	
3 106 68	Battery cabinet for 3 101 73 - 3 101 74 - 3 101 75 - 3 101 76	
3 106 69	Battery cabinet for 3 101 77 - 3 101 78	

Cat. Nos.	Convertible UPS without batteries			
	Nominal power (VA)	Active power (W)	Phase configuration	Weight (kg)
3 101 75	5000	5000	1/1	25
3 101 76	6000	6000	1/1	25
3 101 77	10000	10000	1/1	26
3 101 78	10000	9000	3/1	28

Cat. Nos.	Accessories	
	Description	
3 109 52	Rack support bracket kit	
3 109 53	External manual Bypass for 3 101 70 - 3 101 71 - 3 101 72	
3 109 63	External manual Bypass for 3 101 73 - 3 101 74 - 3 101 75 - 3 101 76 - 3 101 77	
3 109 59	Additional charger for 3 101 70	
3 109 61	Additional charger for 3 101 71 - 3 101 72	
3 109 54	Additional charger for 3 101 73 - 3 101 74 - 3 101 75 - 3 101 76 - 3 101 77 - 3 101 78	
3 109 69	Dry contact card	

Cat. Nos.	Battery cabinet (with batteries)	
	Description	
3 106 60	Battery cabinet for 3 101 70	
3 106 61	Battery cabinet for 3 101 71	
3 106 62	Battery cabinet for 3 101 72	
3 106 63	Battery cabinet for 3 101 73 - 3 101 74 - 3 101 75 - 3 101 76	
3 106 64	Battery cabinet for 3 101 77 - 3 101 78	

NOTE: The stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.

DAKER DK PLUS

UPS - On-line double conversion VFI

Characteristics

General characteristics	3 101 70	3 101 71	3 101 72	3 101 73	3 101 75	3 101 74	3 101 76	3 101 77	3 101 78
Nominal power (VA)	1000	2000	3000	5000		6000		10000	10000
Active power (W)	900	1800	2700	5000		6000		10000	9000
Technology	On-line double conversion VFI-SS-111								
Waveform	Sinusoidal								
Architecture	Convertible tower and 19" rack								
Input characteristics									
Input voltage	230 V								380V 3P+N
Input frequency	50-60 Hz \pm 5% autosensing								
Input voltage range	176V - 280V at full load								305V - 485V
THD of input current	< 3%								
Input power factor	> 0,99								> 0,9
Output characteristics									
Output voltage	230 V \pm 1%								
Output frequency (nominal)	50/60 Hz (configurable via LCD panel) \pm 0.1%								
Efficiency	up to 90%	up to 91%	up to 92%	up to 94%				up to 90%	
Peak factor	1:3								
THD of output voltage	< 3% with linear load								
Output voltage tolerance	\pm 1%								
Internal automatic bypass	included								
External maintenance bypass	optional	optional	optional	optional	optional	optional	optional	optional	-
Batteries									
Backup time extension	Yes								
Backup time (min)	9	10	7	6	-	5	-	-	-
Communication and management									
Screen and signalling	Four buttons and five 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)	440 x 88 (2U) x 405	440 x 88 (2U) x 600		440x196 (4U)x680	440x88 (2U)x680	440x196 (4U)x680	440x88 (2U)x680	440x132 (3U) x680	
Net weight (kg)	16	29,5	30	60	25*	60	25	26	28
Dimensions of battery cabinet H x W x D (mm)	440x196 (4U)x425	440 x 88 (2U) x 600		-	440 x 88 (2U) x 680	-	440 x 88 (2U) x 680	440 x 132 (3U) x 680	
Ambient conditions									
Operating temperature (°C)	0 ÷ 40°C								
Protection index	IP 21								
Relative humidity (%)	20 to 80%								
Noise at 1 m (dBA)	< 50								
Heat dissipation (BTU/h)	490	654	818	892		1300		1636	
Certifications									
Reference product standards	EN 62040-1, EN 62040-2, EN 62040-3								

NOTE: The stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.

DAKER DK PLUS

UPS - On-line double conversion VFI, 120V



3 101 40

Cat. Nos. Convertible 120V UPS with batteries (UL)

Cat. Nos.	Nominal power (VA)	Active power (W)	Backup time (min)	Weight (kg)
3 101 40	1000	900	up to 15	11
3 101 41	1500	1350	up to 15	14,5
3 101 42	2000	1800	up to 15	20
3 101 43	3000	2700	up to 15	27

Battery cabinet with batteries (UL)

Description

3 101 44	Battery cabinet for 3 101 40 (UL)
3 101 45	Battery cabinet for 3 101 41 (UL)
3 101 46	Battery cabinet for 3 101 42 (UL)
3 101 47	Battery cabinet for 3 101 43 (UL)

Accessories

Description

3 109 52	Rack support bracket kit
3 109 69	Dry contact card

Characteristics

General characteristics	3 101 40	3 101 41	3 101 42	3 101 43
Nominal power (VA)	1000	1500	2000	3000
Active power (W)	900	1350	1800	2700
Technology	On-line double conversion VFI-SS-111			
Waveform	Sinusoidal			
Architecture	Convertible tower and 19" rack			
Input characteristics				
Input voltage	120 V			
Input frequency	50-60 Hz \pm 5% autosensing			
Input voltage range	90V - 150V at full load			
THD of input current	< 3%			
Input power factor	> 0,99			
Input connection	NEMA 5-15P	NEMA 5-20P	NEMA L5-30P	
Output characteristics				
Output voltage	120 V \pm 1%, adjustable to 100/110/115/120			
Output frequency (nominal)	50/60 Hz (configurable via LCD panel) +/- 0.1%			
Efficiency	up to 92%			
Peak factor	3:1			
THD of output voltage	< 3% with linear load			
Output voltage tolerance	\pm 1%			
Output Connection	6*NEMA 5-15R	6*NEMA 5-20P	6*NEMA 5-20P 1*NEMA L5-30P	
Internal automatic bypass	included			
Batteries				
Backup time extension	Yes			
Battery nominal voltage (Vdc)	24	36	48	72
Communication and management				
Screen and signalling	Four buttons and five LEDs for real-time control			
Communication ports	RS232 and USB 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)	440 x 88 (2U) x 405	440 x 88 (2U) x 485	440 x 88 (2U) x 600	
Net weight (kg)	11	14.5	20	27
Dimensions of battery cabinet H x W x D (mm)	40 x 88 (2U) x 600			
Ambient conditions				
Operating temperature (°C)	0 ÷ 40°C			
Protection index	IP 20			
Relative humidity (%)	0-90% (without condensation)			
Noise at 1 m (dBA)	< 50			
Certifications				
Reference product standards	UL1778 V4 (cTUVus), FCC Part 15 Class A			

New product codes in red.

NOTE: The stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.

DAKER DK PLUS

Long backup time table

Model	Power	Backup time	Dimensions and number of cabinets H x W x D (mm)	Cat. Nos.
Daker DK Plus	1000 VA	9'	440 x 88 x 405	3 101 70
		1h 27'	440 x 88 x 405 + 440 x 196 x 425	3 101 70 + 3 106 60
		3h	440 x 88 x 405 + 440 x 196 x 425 (x2)	3 101 70 + 3 106 60 (x2)
	2000 VA	10'	440 x 88 x 600	3 101 71
		45'	440 x 88 x 600 (x2)	3 101 71 + 3 106 61
		1h 28'	440 x 88 x 600 (x3)	3 101 71 + 3 106 61 (x2)
	3000 VA	7'	440 x 88 x 600	3 101 72
		31'	440 x 88 x 600 (x2)	3 101 72 + 3 106 62
		58'	440 x 88 x 600 (x3)	3 101 72 + 3 106 62 (x2)
		1h 29'	440 x 88 x 600 (x4)	3 101 72 + 3 106 62 (x3)
	5000 VA	6'	440 x 88 x 680 + 440 x 88 x 680	3 101 75 + 3 106 63
		19'	440 x 88 x 680 + 440 x 88 x 680 (x2)	3 101 75 + 3 106 63 (x2)
		32'	440 x 88 x 680 + 440 x 88 x 680 (x3)	3 101 75 + 3 106 63 (x3)
		50'	440 x 88 x 680 + 440 x 88 x 680 (x4)	3 101 75 + 3 106 63 (x4)
	6000 VA	5'	440 x 88 x 680 + 440 x 88 x 680	3 101 76 + 3 106 63
		15'	440 x 88 x 680 + 440 x 88 x 680 (x2)	3 101 76 + 3 106 63 (x2)
		30'	440 x 88 x 680 + 440 x 88 x 680 (x3)	3 101 76 + 3 106 63 (x3)
		45'	440 x 88 x 680 + 440 x 88 x 680 (x4)	3 101 76 + 3 106 63 (x4)
	10000 VA	6'	440 x 132 x 680 + 440 x 132 x 680	3 101 77 + 3 106 64
		17'	440 x 132 x 680 + 440 x 132 x 680 (x2)	3 101 77 + 3 106 64 (x2)
28'		440 x 132 x 680 + 440 x 132 x 680 (x3)	3 101 77 + 3 106 64 (x3)	
41'		440 x 132 x 680 + 440 x 132 x 680 (x4)	3 101 77 + 3 106 64 (x4)	
54'		440 x 132 x 680 + 440 x 132 x 680 (x5)	3 101 77 + 3 106 64 (x5)	
Daker DK Plus 3 - 1	10000 VA	7'	440 x 132 x 680 + 440 x 132 x 680	3 101 78 + 3 106 64
		19'	440 x 132 x 680 + 440 x 132 x 680 (x2)	3 101 78 + 3 106 64 (x2)
		31'	440 x 132 x 680 + 440 x 132 x 680 (x3)	3 101 78 + 3 106 64 (x3)
		45'	440 x 132 x 680 + 440 x 132 x 680 (x4)	3 101 78 + 3 106 64 (x4)
		59'	440 x 132 x 680 + 440 x 132 x 680 (x5)	3 101 78 + 3 106 64 (x5)

NOTE: The stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.

Configurations

	1000 VA 2 cabinet L 2U + 4U	2000 VA 2 cabinet L 2U + 2U	3000 VA 3 cabinet L 2U + 2U + 2U	6000 VA 2 cabinet L 2U + 2U	10000 VA 2 cabinet L 3U + 3U
TOWER version					
RACK version	1000 VA 2 cabinet H 2U + 4U (294mm)	2000 VA 2 cabinet H 2U + 2U (196mm)	3000 VA 3 cabinet H 2U + 2U + 2U (294mm)	6000 VA 2 cabinet H 2U + 2U (196 mm)	10000 VA 2 cabinet H 3U + 3U (294mm)



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