

# Daker DK Plus UPS



**RACK-TOWER  
UPS**  
from 1 to 10 kVA

GLOBAL SPECIALIST IN ELECTRICAL  
AND DIGITAL BUILDING INFRASTRUCTURES

 **legrand**<sup>®</sup>

# 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 of up to 94%.

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.

Pack	Cat. Nos.	Convertible UPS with batteries			
		Nominal power (VA)	Active power (W)	Backup time (min)	Weight (kg)
1	3 101 70	1000	900	10	16
1	3 101 71	2000	1800	10	29,5
1	3 101 72	3000	2700	8	30
1	3 101 73	5000	5000	5	60
1	3 101 74	6000	6000	4	60

Pack	Cat. Nos.	Battery cabinet (empty)	
		Description	
1	3 106 65	Battery cabinet for 3 101 70	
1	3 106 66	Battery cabinet for 3 101 71	
1	3 106 67	Battery cabinet for 3 101 72	
1	3 106 68	Battery cabinet for 3 101 73 - 3 101 74 - 3 101 75 - 3 101 76	
1	3 106 69	Battery cabinet for 3 101 77 - 3 101 78	

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

\* 3-1 version

		Accessories	
		Description	
1	3 109 52	Rack support bracket kit	
1	3 109 53	External manual Bypass for 3 101 70 - 3 101 71 - 3 101 72	
1	3 109 63	External manual Bypass for 3 101 73 - 3 101 74 - 3 101 75 - 3 101 76 - 3 101 77	
1	3 109 59	Additional charger for 3 101 70	
1	3 109 61	Additional charger for 3 101 71 - 3 101 72	
1	3 109 54	Additional charger for 3 101 73 - 3 101 74 - 3 101 75 - 3 101 76 - 3 101 77 - 3 101 78	
1	3 109 69	Dry contact card	

		Battery cabinet (with batteries)	
		Description	
1	3 106 60	Battery cabinet for 3 101 70	
1	3 106 61	Battery cabinet for 3 101 71	
1	3 106 62	Battery cabinet for 3 101 72	
1	3 106 63	Battery cabinet for 3 101 73 - 3 101 74 - 3 101 75 - 3 101 76	
1	3 106 64	Battery cabinet for 3 101 77 - 3 101 78	

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

## UPS - On-line double conversion VFI

### Caratteristiche

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								
<b>Input characteristics</b>									
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
<b>Output characteristics</b>									
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	-
<b>Batteries</b>									
Backup time extension	Yes								
Backup time (min)	10	10	8	5	-	4	-	-	-
<b>Communication and management</b>									
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								
<b>Mechanical characteristics</b>									
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	
<b>Ambient conditions</b>									
Operating temperature ( $^{\circ}$ C)	0 $\chi$ 40 $^{\circ}$ 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	
<b>Certifications</b>									
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

## 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	10'	440 x 88 x 405	3 101 70
		1h 22'	440 x 88 x 405 + 440 x 196 x 425	3 101 70 + 3 106 65
		2h 44'	440 x 88 x 405 + 440 x 196 x 425 (x2)	3 101 70 + 3 106 65 (x2)
		4h 22'	440 x 88 x 405 + 440 x 196 x 425 (x3)	3 101 70 + 3 106 65 (x3)
		5h 52'	440 x 88 x 405 + 440 x 196 x 425 (x4)	3 101 70 + 3 106 65 (x4)
	2000 VA	10'	440 x 88 x 600	3 101 71
		39'	440 x 88 x 600 (x2)	3 101 71 + 3 106 66
		1h 22'	440 x 88 x 600 (x3)	3 101 71 + 3 106 66 (x2)
		1h 57'	440 x 88 x 600 (x4)	3 101 71 + 3 106 66 (x3)
		2h 44'	440 x 88 x 600 (x5)	3 101 71 + 3 106 66 (x4)
	3000 VA	8'	440 x 88 x 600	3 101 72
		34'	440 x 88 x 600 (x2)	3 101 72 + 3 106 67
		1h 6'	440 x 88 x 600 (x3)	3 101 72 + 3 106 67 (x2)
		1h 33'	440 x 88 x 600 (x4)	3 101 72 + 3 106 67 (x3)
		2h 3'	440 x 88 x 600 (x5)	3 101 72 + 3 106 67 (x4)
	5000 VA	10'	440 x 88 x 680 + 440 x 88 x 680	3 101 75 + 3 106 68
		29'	440 x 88 x 680 + 440 x 88 x 680 (x2)	3 101 75 + 3 106 68 (x2)
		49'	440 x 88 x 680 + 440 x 88 x 680 (x3)	3 101 75 + 3 106 68 (x3)
		1h 11'	440 x 88 x 680 + 440 x 88 x 680 (x4)	3 101 75 + 3 106 68 (x4)
	6000 VA	10'	440 x 88 x 680 + 440 x 88 x 680	3 101 76 + 3 106 68
		29'	440 x 88 x 680 + 440 x 88 x 680 (x2)	3 101 76 + 3 106 68 (x2)
		49'	440 x 88 x 680 + 440 x 88 x 680 (x3)	3 101 76 + 3 106 68 (x3)
		1h 11'	440 x 88 x 680 + 440 x 88 x 680 (x4)	3 101 76 + 3 106 68 (x4)
	10000 VA	7'	440 x 132 x 680 + 440 x 132 x 680	3 101 77 + 3 106 69
18'		440 x 132 x 680 + 440 x 132 x 680 (x2)	3 101 77 + 3 106 69 (x2)	
29'		440 x 132 x 680 + 440 x 132 x 680 (x3)	3 101 77 + 3 106 69 (x3)	
42'		440 x 132 x 680 + 440 x 132 x 680 (x4)	3 101 77 + 3 106 69 (x4)	
56'		440 x 132 x 680 + 440 x 132 x 680 (x5)	3 101 77 + 3 106 69 (x5)	
Daker DK Plus 3 - 1	10000 VA	7'	440 x 132 x 680 + 440 x 132 x 680	3 101 78 + 3 106 69
		18'	440 x 132 x 680 + 440 x 132 x 680 (x2)	3 101 78 + 3 106 69 (x2)
		29'	440 x 132 x 680 + 440 x 132 x 680 (x3)	3 101 78 + 3 106 69 (x3)
		42'	440 x 132 x 680 + 440 x 132 x 680 (x4)	3 101 78 + 3 106 69 (x4)
		56'	440 x 132 x 680 + 440 x 132 x 680 (x5)	3 101 78 + 3 106 69 (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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