

# DAKER DK PLUS

On-line double conversion UPS (rack/tower) - single phase and three phase 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			
Single phase					
		Nominal power (VA)	Active power (W)	Backup time (min)	Weight (kg)
1	3 101 70	1000	900	9	16
1	3 101 71	2000	1800	10	29.5
1	3 101 72	3000	2700	7	30
1	3 101 73	5000	5000	6	60
1	3 101 74	6000	6000	5	60

Convertible UPS without batteries					
Single phase					
		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
Three phase (input) / Single phase (output)					
1	3 101 78	10000	9000	-	28

Battery cabinet (with batteries)	
1	3 106 60 Battery cabinet for Cat.No 3 101 70
1	3 106 61 Battery cabinet for Cat.No 3 101 71
1	3 106 62 Battery cabinet for Cat.No 3 101 72
1	3 106 63 Battery cabinet for Cat.Nos 3 101 73/74/75/76
1	3 106 64 Battery cabinet for Cat.Nos 3 101 77/78

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

Pack	Cat.Nos	Battery cabinet (empty)
1	3 106 65	Battery cabinet for Cat.No 3 101 70
1	3 106 66	Battery cabinet for Cat.No 3 101 71
1	3 106 67	Battery cabinet for Cat.No 3 101 72
1	3 106 68	Battery cabinet for Cat.Nos 3 101 73/74/75/76
1	3 106 69	Battery cabinet for Cat.Nos 3 101 77/78

Accessories	
1	3 109 52 Rack support bracket kit
1	3 109 53 External manual Bypass for Cat.Nos 3 101 70/71/72
1	3 109 63 External manual Bypass for Cat.Nos 3 101 73/74/75/76/77
1	3 109 59 Additional charger for Cat.No 3 101 70
1	3 109 61 Additional charger for Cat.Nos 3 101 71/72
1	3 109 54 Additional charger for Cat.Nos 3 101 73/74/75/76/77/78
1	3 109 69 Dry contact card

Communication accessory	
1	3 109 31 Standard interface for internal network (cards). Connected to the IP network and equipped with management software, the interface allows the protection of one or more devices, or remote systems. Ensures control and supervision of the UPS and shared equipment, sends alerts (e-mails or messages), and turns off/restarts computers. Technical characteristics, see p. 703.

Server cabinets and PDUs, p. 758, 769  
Offer >10 kVA, see [www.ups.legrand.com](http://www.ups.legrand.com)

Free UPS management software available for download on [www.ups.legrand.com](http://www.ups.legrand.com)

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## UPS - On-line double conversion VFI

### Characteristics

Cat.Nos	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
<b>General characteristics</b>									
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								380 V 3 P+N
Input frequency	50-60 Hz $\pm$ 5% autosensing								
Input voltage range	176 V - 280 V at full load								305 V - 485 V
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	3:1								
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>									
Back-up time extension	Yes								
Back-up time (min)	9	10	7	6	-	5	-	-	-
<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 $\div$ 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								

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