

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

Free UPS management software available for download on www.ups.legrand.com

DAKER DK PLUS

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 |
|----------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------|-----------|------------------|---------------------|------------------|---------------------|----------------------|--------------------|
| General characteristics | | | | | | | | | |
| 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 | | | | | | | | 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 |
| 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 | 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 | - |
| Batteries | | | | | | | | | |
| Back-up time extension | Yes | | | | | | | | |
| Back-up 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 ($^{\circ}$ 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 | |
| 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