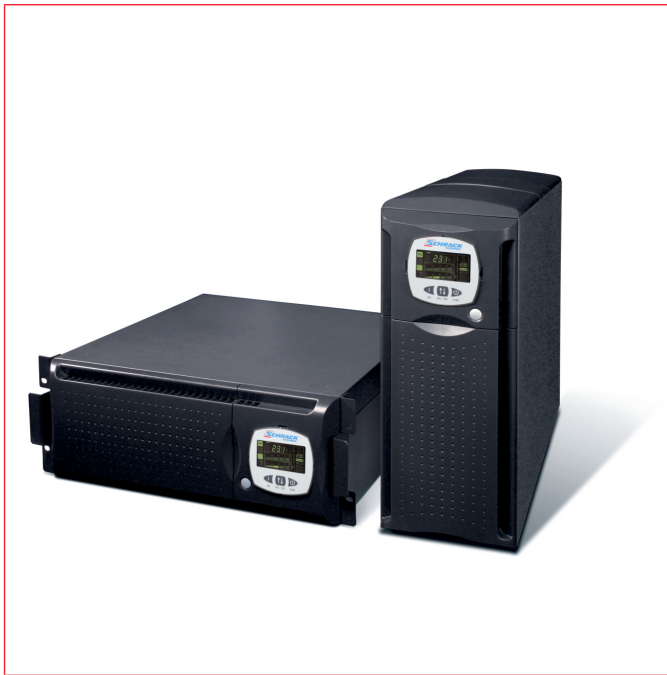


GENIO Dual Maxi



USDD330



USDD330

1:1 3,3 - 4kVA

3:1 6,5 - 10kVA

VFI
TYP

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LEVEL

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USDD330

Schrack-Info

The GENIO Dual Maxi series uses online double conversion technology, resulting in the highest levels of reliability and maximum protection for critical loads. It is therefore the ideal solution for powering high-availability loads and critical equipment (electrical medical equipment). Flexibility of installation and use as well as the many communication options available, make the GENIO Dual Maxi series suitable for many different applications, from IT to safety and emergency systems. The GENIO Dual Maxi series models can be installed on the floor or in rack cabinets for network applications (the LCD display can be rotated). The GENIO Dual Maxi series is available in 3.3-4 kVA one phase and 6,5-8-10 kVA three / one phase models with online double conversion technology (VFI). The inverter continuously powers the load, providing a sinusoidal voltage, filtered and stabilized in terms of voltage, form and frequency. In addition, the input and output filters significantly increase the load's immunity to mains disturbances and transients.

Technology and performance features: Selection between Economy Mode and Smart Active Mode.

Diagnostics: LCD display, RS232 and USB interfaces with UPSMon software and communication slot for accessories connection.

Easy Installation

- Can be installed on the floor (tower version) or in rack mount cabinets (rack version). The slide-out display panel can be rotated (using the key supplied)
- Low noise (less than 40dB): can be installed in nearly any environment thanks to its digitally controlled PWM, its load-dependent fan control and its high frequency switching inverter.
- Operation guaranteed up to 40°C (the components are designed for high temperatures and are thus subject to less stress at normal temperatures).

Operating Mode Selection

The following functions can be programmed via software or manually via the front display panel:

- Online
- Economy Mode: to increase efficiency (up to 98%), allows for the selection of Line Interactive technology (VI) to power low priority loads from the mains supply
- Smart Active: the UPS automatically selects the operating mode (VFD or VFI) based on the quality of the mains power supply
- Emergency power supply: the UPS can be selected to function only when the mains power supply fails (emergency only mode)
- Frequency converter operation (50/60 or 60/50Hz).

GENIO Dual Maxi

Enhanced Output Voltage Quality

- Even with non-linear loads (IT loads with a crest factor of up to 3:1)
- High short circuit current on bypass
- High overload capacity: 150% by inverter (even with mains failure)
- Filtered, stabilised and reliable voltage (online double conversion technology, VFI compliant with EN 62040-2 class C2) with filters for the suppression of atmospheric disturbances
- Power factor correction: UPS input power factor close to 1 and sinusoidal current absorption. Increased battery reliability

Increased Battery Reliability

- Automatic and manual battery test
- Reduced ripple component (detrimental to the batteries) using a low ripple current discharge (LCRD) system
- Batteries are user replaceable without switching off equipment and without interruption to the load (Hot Swap)
- Unlimited extendable runtime using matching battery boxes
- 40ms (high hold-up time) or when the input supply fluctuates between 84V and 276V.

Emergency Power Supply

This configuration ensures the operation of emergency systems that must be supplied in the event of a mains power failure, such as emergency lighting, fire detection/extinguishing systems and alarms. When the mains power supply fails, the inverter begins powering the loads with a progressive startup (Soft Start) in order to prevent overload.

Battery Optimisation

The wide input voltage range and a high hold-up time minimise battery usage and increase efficiency and battery life. In the event of short power breaks, energy is drawn from the generously sized capacitors.

- Automatic and manual battery test
- Reduced ripple component (detrimental to the batteries) using a low ripple current discharge (LCRD) system
- Batteries are user replaceable without switching off equipment and without interruption to the load (Hot Swap)
- Unlimited extendable runtime using matching battery boxes
- The batteries do not cut in during mains failures of less than 40ms (high hold-up time) or when the input supply fluctuates between 84V and 276V.

EnergyShare

The GENIO Dual Maxi series models 6,5 - 10kVA (3/1 phase) each have two separately configurable IEC 10 output sockets. These sockets can be configured to switch off first in the event of a mains failure and thus increase the runtime for the remaining loads.

Other Features

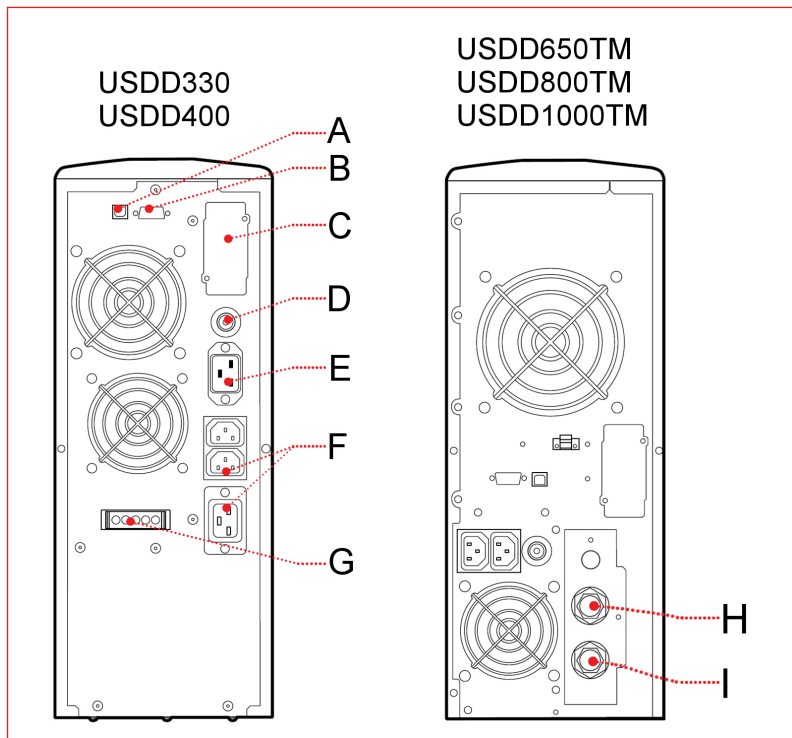
- Selectable output voltage (220-230-240V)
- Auto-restart when mains power is restored (programmable via software)
- Bypass on: when the system is switched off, it automatically goes into bypass and battery charge mode.
- Minimum load switch-off
- Low battery warning
- Start-up delay
- Total microprocessor control
- Automatic bypass without interruption
- Use of IMS modules (Insulated Metallic Substrates)
- Status, measurements and alarms available on backlit display
- Digital UPS update (flash upgradeable)
- Input protection via resettable thermal switch
- Default back-feed protection: to prevent energy from being fed back to the mains
- Manual switching to bypass.

Advanced Communication Features

- Advanced multi-platform communications for all operating systems and network environments: UPSMon monitoring and shutdown software is available for free download at www.ups-tech.net for the operating systems Windows 10, 8, 7, 2008, Vista, 2003, XP, Linux, Mac OS X, Sun Solaris, Linux, VMWare ES X and other Unix operating systems
- Plug and play functionality
- USB port
- RS232 serial port
- Slot for installation of communication boards.

GENIO Dual Maxi

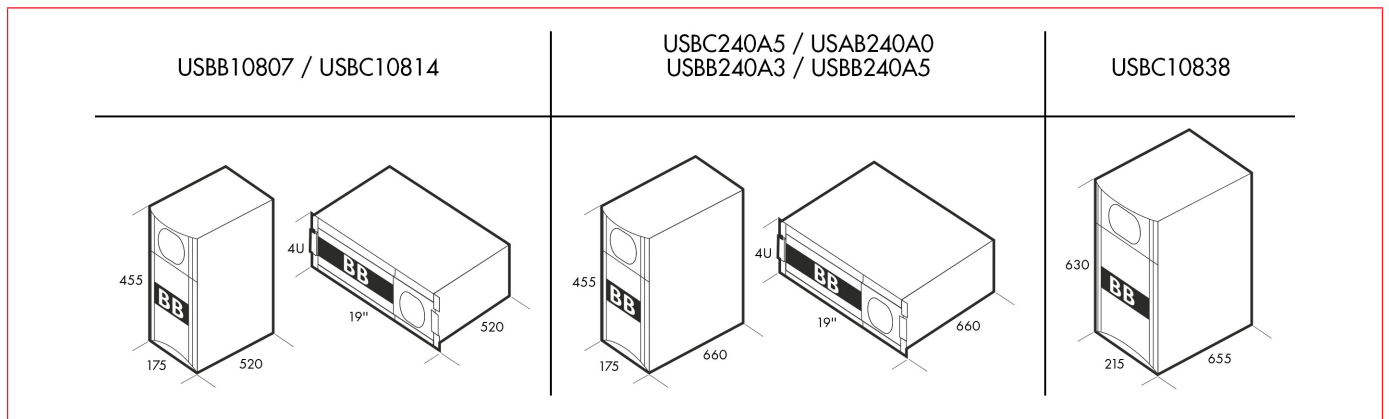
Details



Key

- A USB port
- B Serial port
- C Communications slot
- D Input thermal protection
- E Input socket
- F IEC output sockets
- G Battery expansion connector
- H Input cable access
- I Output cable access

Battery Boxes




Autonomy Times

Order no.	max. apparent power	max. effective power	autonomous time [min.]	
	[VA]	[W]	typical load*	full load**
USDD330	3300	2300	11	7
USDD330 +USBB10807	3300	2300	27	19
USDD330 +USBC10814	3300	2300	48	30
USDD330 +USBC108M3	3300	2300	65	45
USDD330 +USBC10838 (Tower)	3300	2300	120	80
USDD400	4000	2400	9	6
USDD400 +USBB10807	4000	2400	20	15
USDD400 +USBC10814	4000	2400	38	27
USDD400 +USBC108M3	4000	2400	59	43
USDD400 +USBC10838 (Tower)	4000	2400	105	75
USDD650TM0 +USBB240A3	6500	5850	14	9
USDD650TM0 +2 USBB240A3	6500	5850	39	24
USDD650TM0 +3 USBB240A3	6500	5850	60	44
USDD800TM0 +USBB240A5	8000	7200	13	8
USDD800TM0 +2 USBB240A5	8000	7200	30	18
USDD800TM0 +USBB240A5 +2 USBC240A5	8000	7200	55	30
USDD1000T0 +USBB240A5	10000	9000	10	5
USDD1000T0 +2 USBB240A5	10000	9000	25	16
USDD1000T0 +USBB240A5 +2 USBC240A5	10000	9000	46	27

* typical load: autonomous time calculated with 75% load [VA] with power factor 0.66













** full load: autonomous time calculated with 100% load [VA] with power factor 0.7

 GENIO Dual Maxi

 Technical Data 1-1 Phase / 3-1 Phase

MODELS	USDD330	USDD400	USDD650TMO	USDD800TMO	USDD1000T0
POWER	3300 VA / 2300 W	4000 VA / 2400 W	6500 VA / 5850 W	8000 VA / 7200 W	10000 VA / 9000 W
INPUT					
Nominal voltage	220 - 230 - 240 VAC		400 VAC three-phase +N		
Minimum voltage (F + N)	164 VAC @ 100 % load / 84 VAC @ 50 % load				
Nominal frequency	50/60 Hz \pm 5Hz				
Power factor	über 0,98		über 0,95		
Current distortion	\leq 7%				
BY-PASS					
Voltage tolerance	180-264 VAC (selectable in Economy Mode or Smart Active Mode)				
Frequency tolerance	Selected frequency \pm 5 % (selectable by user)				
OUTPUT					
Nominal voltage	220-230-240 VAC selectable				
Voltage distortion	< 3% with linear load / < 6% with non-linear load				
Frequency	50/60 Hz selectable				
Static variation	1,50%				
Dynamic variation	\leq 5 % in 20 ms				
Waveform	Sinusoidal				
Crest factor	03:01				
BATTERIES					
Type	VRLA AGM maintenance-free lead based				
Recharge time	4-6 Stunden				
OVERLOAD TIMES					
100 % < Load < 110 %	1 minute				
110% < Load < 150%	4 seconds				
Load > 150 %	0.5 seconds				
OTHER FEATURES					
Net weight (kg)	38	40	91	94	95
Gross weight (kg)	42,5	44,5	99	102	103
Dimensions	175 x 520 x 455 tower		2 x (175 x 660 x 455) tower		
(WxDxH) (mm)	19" x 520 x 4U rack		2 x (19" x 660 x 4U) rack		
Packaged dimensions	540 x 620 x 280		780 x 555 x 285		
(WxDxH) (mm)					
Efficiency Line-interactive	98%				
Smart Active					
Protections	Overcurrent - short-circuit - overvoltage - undervoltage - temperature - excessive low battery				
Communications	USB /RS232 + slot for communications interface				
Input plugs	1 IEC 320 C20		Terminal board		
Output sockets	2 IEC 320 C13 + 1 IEC 320 C20		Klemmleiste + 2 IEC 320 C13		
Standards	EN 62040-1 EMC EN 62040-2 Directives 73/23 - 93/68 - 2004/108 EG EN 62040-3				
Operating temperature	0 °C / +40 °C				
Relative humidity	< 95 % non-condensing				
Colour	Dark grey RAL 7016				
Noise level at 1 m	unter 40 dBA				
Standard equipment provided	2 10 A cables; 1 IEC-16 A plug; software; serial cable; keys for releasing display panel; handles kit		2 cable guides; cable tips; software; serial cable; keys for releasing display panel; handles kit		

GENIO Dual Maxi

DESCRIPTION	AVAILABLE	ORDER NO.
1/1 phase (stand alone and 19" rack mounting)		
3300VA / 2300W / full load: 7min. / typical load: 11min. /w x d x h=175x520x455mm / 38kg		USDD330
4000VA / 2400W / full load: 6min. / typical load: 9min. /w x d x h=175x520x455mm / 40kg		USDD400
3/1 phase (stand alone and 19" rack mounting)		
6500VA / 5200W / 0min. /w x d x h=175x660x455mm / 29kg		USDD650TMO
8000VA / 6400W / 0min. /w x d x h=175x660x455mm / 30kg		USDD800TMO
10000VA / 8000W / 0min. /w x d x h=175x660x455mm / 95kg		USDD1000T0
Battery boxes incl. batteries		
For USDD300/400 108V 7Ah / tower & rack mounting /w x d x h=175x520x455mm / 30kg		USBB10807
For USDD300 / 400 14Ah / mit charger / tower & rack mounting /w x d x h=175x520x455mm / 50kg		USBC10814
For USDD330 / 400 38Ah / without charger / tower mounting /w x d x h=215x655x630mm / 145kg		USBC10838
For USDD650-1000 240V 7Ah / tower & rack mounting /w x d x h=175x660x455mm / 63kg		USBB240A3
For USDD650-1000 240V 9Ah / tower & rack mounting /w x d x h=175x660x455mm / 65kg		USBB240A5
For USDD6500VA-10000VA 9Ah / mit charger / tower & rack mounting /w x d x h=175x660x455mm / 65kg		USBC240A5
Battery boxes without batteries		
For USDD 6,5-10kVA, 240V 20x7Ah (incl. batt. cables, excl. batt.) /w x d x h=175x660x455mm / 13kg		USAB240A0
Battery insertion boxes and batteries for exchange in USDD		
Replacement battery GiV slim high current 12V 24W for USDD330 - USDD600, USBB10807 and USBC10814 /w x d x h=51x151x100mm / 1,95kg		USBA007SLI
Battery insertion box for USDD330/400, USBB10807, USBC10814. Without batteries incl. battery connectors. One box per UPS or USBB10807 and 9 batteries USBA007SLI are required. For USBC10814 2 boxes and 2x9 batteries USBA007SLI are required. /w x d x h=160x480x110mm / 0,75kg		USDBE3340
Battery insertion box for USDD500/600 without batteries incl. battery connectors. Two boxes per UPS and 2x8 batteries USBA007SLI are required. /w x d x h=160x415x110mm / 0,75kg		USDBE5060
Accessories		
US Netman 204 Plus, plug in board TCP/IP		USNETMA204
Universal rack mount slide for UPS /w x d x h=100x640x100mm / 2kg		USRACKGUID
J-Bus/ModBUS UPS interface via RS232/RS485min. boxed version		USMULTI301
J-Bus/ModBUS UPS interface via RS232/RS485min. plug in card		USMULTI302
Plug in board for UPS alarm and status indication with potential free contacts		USMULTI382
Profibus UPS interface (DP-V1, Profidrive V2 PPO5)min. / boxed version		USMULTI401
Interface 8 inp. 8 outp. (programmable), Modbusmin. / boxed version		USMULTIIOB
UPS cable kit for AS400		USAS400KIT
GPRS modem for UPS management via GSM-mobile phone network		USRTG100
Remote supervision panel for UPS with graphic display and RS232		USMULTIPAN
Maintenance bypass 16A (upto 3kVA UPS) - wall mounting /w x d x h=220x480x50mm / 2kg		USBYM
Maintenance bypass 16A (upto 3kVA UPS) - rack mounting /w x d x h=260x100x600mm / 4,8kg		USBYMR
PDU for UPS, 4 Outlets Schuko, 10A, 1.1m cable with IEC C14 plug, black		Q7533060-A
19" PDU for UPS, 8x Schuko Red, 1x Fuse 10A, Profile ALU 1U, 2m-connector cable with IEC connector C14, RAL7035		IU070130