ONLINE DOUBLE CONVERSION CONTINUITY GROUPS

from 1 KVA to 10 KVA

GDC SERIES

HIGH PROTECTION AND HIGH AVAILABILITY

- The GDC series is a range of compact UPS systems available in models 1000, 2000, 3000, 6000 and 10000 VA with on-line double conversion technology (VFI) and sinusoidal absorption.
- GDC guarantees a permanent output voltage and frequency trimming. This technology is compatible with all applications in IT and industrial environments and in combination with the engine generator.
- The wide tolerance of the input voltage limits the battery transitions, thus significantly prolonging life.
- The automatic bypass switches at zero time in the event of overloads or faults, ensuring continuity to utilities.

EASY OF INSTALLATION AND EASY OF USE

- The UPS is ready for power up with the internal batteries connected and fully charged.
- GDC is an UPS easy to install requiring no special plant preparation as it is equipped with integrated thermal protections. In addition, if combined with an external manual bypass, it can be completely replaced without causing interruptions to the load.
- The control panel / LED management and a buzzer make the system easy to use and intuitive equipment. The graphic layout illustrating the energy path highlights immediately if the system is working correctly or not.
- By the control panel or via software it is possible to test the efficiency of the batteries.

OPERATING EFFICIENCY AND VERSATILITY

- The versatility of these models makes them suitable to be employed for the protection of critical devices in industrial contexts.
- The standard equipment and the communication accessories are specifically designed to meet the typical needs of the installation or utilization in transformer stations.
- Via the communication software you can schedule starts and stops where automatic power management procedures are required.

PROGRAMMABLE DRY CONTACTS CARD (optional)

A dedicated interface for dry contacts, installed on the rear slot shows the status of the UPS by means of five voltage-free contacts and provides an input for remote emergency power off (EPO).

COMMUNICATION OPTIONS

- ViewPower PRO software is available for managing applications and automatic power-off control. A serial cable is included.
- SNMP Web manager interface is available for direct connection to the Ethernet network (LAN / WAN).This accessory can be integrated in the UPS by means of a slot located on the rear panel.

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DATA SHEET

TYPE — GDC - 1K/2K/3K - DOUBLE CONVERSION ONLINE SINGLE PHASE

	MODEL	GDC 1K	GDC 2K	GDC 3K
	NOMINAL POWER	1000 VA / 900 W	2.000 VA / 1.800 W	3.000 VA / 2.700 W
INPUT	VOLT RANGE - Low line switch	160 VAC / 140 VAC / 120 VAC / 110 VAC ± 5 % (% network base: 100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0)		
	VOLT RANGE - Low line return	175 VAC ± 5		
	VOLT RANGE - High line switch	300 VAC ± 5 %		
	VOLT RANGE - High line return	290 VAC ± 5 %		
	FREQUENCY RANGE	40 Hz ~ 70 Hz		
	PHASES	Single phase with Neutral		
	POWER FACTOR	~ 0.95		
OUTPUT	VOLTAGE TOLERANCE (Battery Mode)	± 3%		
	FREQUENCY (Syncronization range)	47.5Hz ~ 52.5 Hz or 57Hz ~ 63 Hz		
	FREQUENCY (Battery mode range)	50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz		
	PEAK CURRENT FACTOR	3:1		
	HARMONIC DISTORTION	∏ 3 % THD (linear load) ∏ 6 % THD (not linear load)	∏ 4 % THD (linear load) ∏ 7 % THD (not linear load)	
	INTERVENTION TIME-From line to battery	Zero		
	INTERVENTION TIME-From Inverter to Bypass	4 ms (Typical)		
	WAVE FORM (Battery Mode)	Perfect sine wave		
EFFICIENCY	WITH NETWORK OPERATING	~ 85%	~ 88%	
	WITH BATTERY OPERATING	~ 83%		
BATTERY Standard model	BATTERY TYPE	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah
	BATTERY QUANTITY	3	6	6
	TYPICAL CAPACITY	Refer to table	Refer to table	Refer to table
	CHARGING CURRENT (MAX.)	1.0 A		
	CHARGING VOLTAGE	41.0 VDC ± 1%	82.1 VDC ±1%	
BATTERY High capacity model (S)	BATTERY TYPE	Depending on the capacity of external batteries according to the required capacity		
	BATTERY QUANTITY	Depending on the capacity of external batteries according to the required capacity		
	CHARGING CURRENT (MAX.)	8.0 A		
	CHARGING VOLTAGE	41.0 VDC ± 1%	82.1 VDC ±1%	
REPORTING	LCD PANEL	UPS status, load level, Battery level, Input/output voltage, battery discharge time, failure status		
ALARMS	BATTERY OPERATION	Sound every 4 seconds		
	LOW BATTERY	Sound every second		
	OVERLOAD	Double sound every second		
	FAULT	Continuous sound		
WEIGHT AND DIMENSIONS TOWER SIZE STANDARD MODEL	DIMENSIONS, W x L x H (mm)	397 X 145 X 220	421 X 190 X 318	
	NET WEIGHT (kg)	13,18	28,1	
WEIGHT AND DIMENSIONS TOWER SIZE HIGH CAPACITY MODEL (S)	DIMENSIONS, W x L x H (mm)	397 X 145 X 220	421 X 190 X 318	
	NET WEIGHT (kg)	6,86	12,93	
ENVIRONMENTAL DATA	OPERATING HUMIDITY	20-90 % RH @ 0- 40°C (without condensation)		
	NOISE LEVEL	< 45dBA @ 1 meter		
INTERFACES	SMART RS-232/USB	Windows series, Novell, Linux and FreeBSD		
	OPTIONAL SNMP	Power management for SNMP manager and web browser		

* (S) Identify high capacity models

* Product specifications could be subject to change without notice

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DATA SHEET

TYPE

GDC 6K/10K - DOUBLE CONVERSION ONLINE SINGLE PHASE

	MODEL	GDC 6K	GDC 10K
	NOMINAL POWER	6.000 VA / 5.400 W	10.000 VA / 9.000 W
INPUT	VOLT RANGE - Low line switch	176 VAC @ 100% load - 110 VAC @ 50% load	
	VOLT RANGE - Low line return	186 VAC @ 100% load - 120 VAC @ 50% load	
	VOLT RANGE - High line switch	300 VAC	
	VOLT RANGE - High line return	290 VAC	
	FREQUENCY RANGE	46~54 Hz ∏ 50Hz / 56~64 Hz ∏ 60Hz	
	PHASES	Sigle phase with ground	
	POWER FACTOR	∏ 0.99 @ 100% load	
OUTPUT	VOLTAGE TOLERANCE (Battery Mode)	± 1%	
	FREQUENCY (Syncronization range)	46~54 Hz ∏ 50 Hz / 56~64 Hz ∏60 Hz	
	FREQUENCY (Battery mode range)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz	
	PEAK CURRENT FACTOR	3:1	
	HARMONIC DISTORTION	∏ 2 % THD (linear load)	∏ 6 % THD (not linear load)
	INTERVENTION TIME-From line to battery	Zero	
	INTERVENTION TIME-From Inverter to Bypass	Zero	
	WAVE FORM (Battery Mode)	Perfect sine wave	
EFFICIENCY	WITH NETWORK OPERATING	90%	
	WITH BATTERY OPERATING	88%	
BATTERY Standard model	BATTERY TYPE	12 V / 9 AH	12 V / 9 AH
	BATTERY QUANTITY	Refer to table	Refer to table
	CHARGING CURRENT (MAX.)	1.0 A	
	CHARGING VOLTAGE	273.0 VDC	
BATTERY High capacity model (S)	BATTERY TYPE	Depending on the capacity of external batteries according to the required capacity	
	BATTERY QUANTITY	Depending on the capacity of external batteries according to the required capacity	
	CHARGING CURRENT (MAX.)	4.0 A	
	CHARGING VOLTAGE	273.0 VDC	
REPORTING	LCD PANEL	UPS status, load level, Battery level, Input/output voltage, battery discharge time, failure status	
ALARMS	BATTERY OPERATION	Sound every 4 seconds	
	LOW BATTERY	Sound every second	
	OVERLOAD	Double sound every second	
	FAULT	Continuous sound	
WEIGHT AND DIMENSIONS TOWER SIZE STANDARD MODEL	DIMENSIONS, W x L x H (mm)	592 X 250 X 576	
	NET WEIGHT (kg)	81	83
WEIGHT AND DIMENSIONS TOWER SIZE HIGH CAPACITY MODEL (S)	DIMENSIONS, W x L x H (mm)	592 X 250 X 576	
	NET WEIGHT (kg)	22	24
ENVIRONMENTAL DATA	OPERATING HUMIDITY	20-90 % RH @ 0- 40°C (without condensation)	
	NOISE LEVEL	< 45dBA @ 1 meter	< 58dB @ 1 meter
INTERFACES	SMART RS-232/USB	Windows family, Novell, Linux and FreeBSD	
	OPTIONAL SNMP	Power management for SNMP manager and web browser	

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