

RD7000^{Auriga}

UPS 60 ÷ 100 kVA



REDEAL **RD7000**^{AURIGA} is complete and cost effective power protection solutions delivering premium VFI online double conversion for IT and electrical infrastructures in corporate, medical, banking and industrial applications.

100% MADE IN ITALY, **RD7000**^{AURIGA} adopt PFC IGBT-based topology resulting in the highest levels of efficiency (0.99 input power factor - THDi <3%) and reliability for all mission critical loads for all three-phase installations.

Featuring multilanguage LCD display, RS232 port, BMS communication interface (DRY CONTACT & MODBUS RTU PROTOCOL BOARD), intelligent slot for SNMP adapter, **RD7000**^{AURIGA} is real time energy sentinel able to alert you in any situation.

Combining proven performance with technical innovation to deliver pure quality to any mission critical load, **RD7000**^{AURIGA} is your best choice.

MAIN TECHNICAL DATA	RD7000 ^{AURIGA} 60	RD7000 ^{AURIGA} 80	RD7000 ^{AURIGA} 100
UPS Topology	VFI On-Line Double Conversion		
Converter	Power factor correction PFC IGBT-based		
Inverter	High frequency IGBT inverter transformerless		
Static switch	Electronic static switch plus contactor		
Cooling	Forced air		
Input nominal voltage	3Ph+N 380/400/415V		
Input nominal frequency	50 or 60 Hz		
Input frequency tolerance	40 ÷ 70 Hz		
Power factor	0.99		
Input current distortion	THDi ≤3%		
Bypass nominal voltage	3Ph 380/400/415V		
Bypass voltage tolerance	±20%		
Bypass factory setting	±10%		
Bypass nominal frequency	50 or 60 Hz		
Bypass accepted overload	10In per 100ms		
Manual bypass	with mechanical lock		
Output active power	54kW	72kW	90kW
Nominal output voltage	3Ph 380/400/415V		
Output power factor	0.9		
Output voltage static variation	± 2%		
Output voltage dynamic variation	± 5%		
Crest factor	3:1		
Output voltage distortion linear load	≤ 3%		
Output voltage distortion non linear load	≤ 5%		
Output frequency	50Hz or 60Hz		
Output frequency stability	0.01%		
UPS system efficiency	> 95%		
Overload	125% for 10 minutes		
	150% for 60 seconds		

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Battery type	VRLA AGM (Ni-Cd on request)		
Number of elements	360		
Battery nominal voltage	720 Vdc		
Battery voltage range	600 ÷ 830 Vdc		
Battery maximum charging current	25A		
Battery charging profile	DIN 41733 Charging voltage: 810Vdc Temperature compensated battery charging profile		
Battery low threshold (factory setting)	640 Vdc		
Battery management & test	Supervised battery management & settable regular test		
Remote signals	Dry contact board - remote EPO		
Standard interfaces and protocol	RS232 port & MODBUS RTU + slot for communication options		
Monitoring software	UPSMAN & UPSMON		
Communication options	web adapter SNMP (Generex CS121 / Megatec NetAgent)		
Parallel capability (optional)	up to 8 units (closed loop via optical fiber)		
MECHANICAL DATA			
Case protection rating	metal case - RAL 7016 - IP20 (upgrade IP42 or IP54 on request)		
Dimensions (WxDxH mm)	410 x 830 x 1510 mm		
Weight kg (UPS no battery)	240kg	270kg	290kg
Noise level at 1m	60dB	60dB	60dB
Storing temperature	-20°C ÷ +70°C (UPS) +20°C ÷ +30°C (Battery)		
Operating temperature	0°C ÷ +40°C		
Relative humidity	95% non condensing		
Altitude	1000m above MSL without derating (1% derating any 100m up to 2.000m)		
Ventilation	multilevel fan		
UPS moving	castors		
UPS packaging	overseas shipment suitable cartoon box on fumigated wooden pallet		
UPS packaging dimensions (WxDxH mm)	1000x1000x1800 mm * 12kg		
STANDARDS	European Directives: LC 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1:2008+A1:2013 EMC IEC EN 62040-2 C2 Classification in accordance with IEC 62040-3 VFI - SS - 111		

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Main electrical features

- * Dual input mains: separated or common
- * Genset compatibility without any additional equipment
- * Integrated maintenance bypass
- * Detection circuit for backfeed protection (additional backfeed device UPS built in or in external panel)
- * Distributed or shared battery for optimized energy storage and uninterrupted power during strings maintenance
- * Battery temperature sensor and supervised battery management dual charging method profile
- * UPS *eco-mode* functional profile for 99% efficiency
- * Frequency converter profile with or without backup time 60Hz to 50Hz or viceversa

Main electrical optional features

- * Parallel capability for redundant or add capacity system configuration (up to 8 units)
- * Extended runtime in external cabinet matching UPS design
- * Extended runtime in external cabinet IP20 or open rack, complete of DC breaker
- * UPS external cabinet galvanic isolation transformer (full system isolation)
- * UPS I/O phase voltage and frequency configuration settable via LCD
- * UPS upgrade to double independent outputs — EN 50171 standard
- * Battery bank disconnection in case of UPS shutdown or according to BMS design
- * BACS battery advanced care system for constant monitoring and harmonization of individual charging voltages

UPS connectivity available features for immediate system status info

Real time information, real time solution!

- * User friendly Multilanguage LCD (Russian available)
- * Event log access via LCD for on-site checking & event log download via open software
- * Dry contact interface complete of 4 change-over contact outputs
- * Serial connection interface via RS232/RS485 Modbus RTU for BMS full compatibility
- * At-a-glance user view for simultaneous monitoring of all UPS systems connected in the same network
- * Intelligent free slot for additional SNMP interface and ambient sensors (temperature, humidity, smoke etc...)
- * UPS MAN & MON software for UPS managing and monitoring
- * Remote LED panel for UPS status
- * Remote EPO
- * Remote UPS monitoring service 24/7 - 365
- * Server, PC and/or virtual machine configured shutdown
- * e.mail/SMS/pop up UPS status information