Technical Data Sheet

RIDA3000-SW Converter

2400W-4000W / Wide Range

RECOM
DC/AC INVERTER

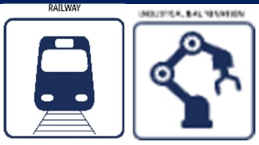
FEATURES

- Sine wave output voltage
- Selectable output frequency 50/60Hz
- Adjustable output voltage
- High input-output isolation 3000Vrms
- Remote inhibit
- Remote control via RS232
- Alarm by isolated relay contacts
- Remote OFF opto-coupled
- Optional railway version EN50155
- Fire and Smoke: EN45545-2 approved
- Efficiency up to 91%



Dimensions: 394.8 x 193.9 x 78.5mm (15.54" x 7.63" x 3.09")

APPLICATION



SAFETY & EMC

CE UKCA RoHS² compliant 10 from 10 Reach compliant

- The charger follows LVD Directive 2014/35/EU and EMC Directive 2014/30/EU.
- The converter is CE compliant. EMC radiation must be evaluated and tested in the complete system since mounting and wiring have a large influence on radiation behaviour.
- Cybersecurity: the product features a serial communication interface. CRA-relevant security aspects have been considered in the product design and documentation, including risk assessment. The product complies with the Cyber Resilience Act (CRA, EU Regulation 2024/2847) when installed in accordance with the instruction sheet

DESCRIPTION

The RIDA3000-SW series is a high-performance DC/AC sine wave inverter designed to deliver reliable AC power from a wide range of DC input voltages. The series provides nominal output power from 2400 W up to 4000 W, with 120 VAC or 230 VAC output and selectable 50/60 Hz frequency, making it suitable for both industrial and railway applications. The inverter features high input-to-output galvanic isolation up to 3000 Vrms, ensuring a high level of safety and system protection. Output voltage and current are fully programmable, allowing flexible adaptation to different load requirements. An internal controlled fan provides efficient cooling, supporting operation over a wide ambient temperature range. The RIDA3000-SW includes comprehensive protection functions such as overload and short-circuit protection with current limiting and I²t control, over-temperature shutdown with automatic recovery, and output failure alarm via isolated relay contacts. System status and parameters can be monitored and configured through an RS-232 communication interface, enabling remote control and diagnostics. The product is CE and UKCA compliant and conforms to LVD and EMC directives. Optional versions are available for railway applications according to EN 50155, including extended temperature ranges, and comply with EN 45545-2 fire and smoke requirements, making the RIDA3000-SW suitable for demanding transportation environments.

RIDA3000- - -SW- kW- -

- RECOM Series
- Nominal Input
- Nominal output
- Custom power
- **PRI** Remote OFF reversed (ON: applying 14.4÷137.5V)
- Options
  - **PRB** Industrial version
  - **PRB50** Industrial version -50°C
  - **PRT** Railway version according to EN50155
  - **PRT50** Railway version according to EN50155 -50°C

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RECOM
DC/AC INVERTER

MODELS

Part Number	Input Voltage nom. [VDC]	Input Current Max. [A]	Output Voltage nom. [VAC]	Output Current Max 10ms [A]	Output Power Max [W]
RIDA3000-24-120-SW-2.4kW	24	163	120	52	2400
RIDA3000-36-120-SW-2.5kW	36	134	120	52	2500
RIDA3000-48-120-SW-2.5kW	48	84	120	52	2500
RIDA3000-72-120-SW-2.5kW	72	56	120	52	2500
RIDA3000-110-120-SW-2.5kW	110	36	120	52	2500
RIDA3000-110-220-SW-2.8kW	110	43	220	32	2860
RIDA3000-24-230-SW-2.4kW	24	161	230	32	2400
RIDA3000-36-230-SW	36	133	230	32	3000
RIDA3000-48-230-SW	48	99	230	32	3000
RIDA3000-72-230-SW	72	66	230	32	3000
RIDA3000-110-230-SW	110	43	230	32	3000
RIDA3000-110-230-SW-4.0kW	110	57	230	34	4000
RIDA3000-120-230-SW-4.0kW	120	52	230	34	4000
RIDA3000-300-230-SW-4.0kW	300	15	230	34	4000

Several references are subjected to special MOQs and lead times. Please consult RECOM Power Systems's Sales Dept. and web site.

BASIC CHARACTERISTICS

Parameter	Conditions	Min.	Typ.	Max.
	INPUT			
Rated Input Voltage	RIDA3000-24-120-SW-2.4Kw - RIDA3000-24-230-SW-2.4kW		24VDC	
	RIDA3000-36-120-SW-2.5kW - RIDA3000-36-230-SW		36VDC	
	RIDA3000-48-120-SW-2.5kW - RIDA3000-48-230-SW		48VDC	
	RIDA3000-72-120-SW-2.5kW - RIDA3000-72-230-SW		72VDC	
	RIDA3000-110-120-SW-2.5kW - RIDA3000-110-220-SW-2.8kW – RIDA3000-110-230-SW - RIDA3000-110-230-SW-4.0kW		110VDC	
	RIDA3000-120-230-SW-4.0kW		120VDC	
	RIDA3000-300-230-SW-4.0kW		300VDC	
Input Voltage Range	RIDA3000-24-120-SW-2.4Kw - RIDA3000-24-230-SW-2.4kW	16.8VDC		30.0VDC
	RIDA3000-36-120-SW-2.5kW - RIDA3000-36-230-SW	25.2VDC		45.0VDC
	RIDA3000-48-120-SW-2.5kW - RIDA3000-48-230-SW	33.6VDC		60.0VDC
	RIDA3000-72-120-SW-2.5kW - RIDA3000-72-230-SW	50.4VDC		90.0VDC
	RIDA3000-110-120-SW-2.5kW - RIDA3000-110-220-SW-2.8kW – RIDA3000-110-230-SW - RIDA3000-110-230-SW-4.0kW	77.0VDC		138.0VDC
	RIDA3000-120-230-SW-4.0kW	84.0VDC		150.0VDC
	RIDA3000-300-230-SW-4.0kW	290VDC		330.0VDC
Input Current Range (Min no load)	RIDA3000-24-120-SW-2.4kW	0.65A		163A
	RIDA3000-36-120-SW-2.5kW	0.49A		134A
	RIDA3000-48-120-SW-2.5kW	0.38A		84A
	RIDA3000-72-120-SW-2.5kW	0.28A		56A
	RIDA3000-110-120-SW-2.5kW	0.17A		36A
	RIDA3000-110-220-SW-2.8kW	0.17A		43A
	RIDA3000-24-230-SW-2.4kW	0.88A		161A
	RIDA3000-36-230-SW	0.60A		133A
	RIDA3000-48-230-SW	0.42A		99A
	RIDA3000-72-230-SW	0.30A		66A
	RIDA3000-110-230-SW	0.17A		43A
	RIDA3000-110-230-SW-4.0kW	0.20A		57A
	RIDA3000-120-230-SW-4.0kW	-		52A
	RIDA3000-300-230-SW-4.0kW	-		15A

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Parameter	Conditions	Min.	Typ.	Max.
INPUT				
Efficiency	RIDA3000-24-120-SW-2.4kW		88%	
	RIDA3000-36-120-SW-2.5kW		89%	
	RIDA3000-48-120-SW-2.5kW		89%	
	RIDA3000-72-120-SW-2.5kW		90%	
	RIDA3000-110-120-SW-2.5kW		91%	
	RIDA3000-110-220-SW-2.8kW		92%	
	RIDA3000-24-230-SW-2.4kW		89%	
	RIDA3000-36-230-SW		90%	
	RIDA3000-48-230-SW		91%	
	RIDA3000-72-230-SW		91%	
	RIDA3000-110-230-SW		92%	
	RIDA3000-110-230-SW-4.0kW		92%	
	RIDA3000-120-230-SW-4.0kW		92%	
	RIDA3000-300-230-SW-4.0kW		92%	
Input Ripple	Vin nom (Vrms, 100Hz)			5%
Input Voltage Shutdown Instantaneous	RIDA3000-24-120-SW-2.4kW - RIDA3000-24-230-SW-2.4kW	14.4VDC		33.7VDC
	RIDA3000-36-120-SW-2.5kW - RIDA3000-36-230-SW	21.6VDC		50.6VDC
	RIDA3000-48-120-SW-2.4kW - RIDA3000-48-230-SW	28.7VDC		67.3VDC
	RIDA3000-72-120-SW-2.4kW - RIDA3000-72-230-SW	43.1VDC		100.9VDC
	RIDA3000-110-120-SW-2.4kW - RIDA3000-110-220-SW-2.8kW – RIDA3000-110-230-SW - RIDA3000-110-230-SW-4kW	65.9VDC		154.1VDC
	RIDA3000-120-230-SW-4.0kW	72.0VDC		156.0VDC
	RIDA3000-300-230-SW-4kW	248.2VDC		368.5VDC
Input Voltage Shutdown Timed 0.1s	RIDA3000-24-120-SW-2.4kW - RIDA3000-24-230-SW-2.4kW	16.7VDC		30.1VDC
	RIDA3000-36-120-SW-2.5kW - RIDA3000-36-230-SW	25.1VDC		45.2VDC
	RIDA3000-48-120-SW-2.4kW - RIDA3000-48-230-SW	33.5VDC		60.1VDC
	RIDA3000-72-120-SW-2.4kW - RIDA3000-72-230-SW	50.3VDC		90.1VDC
	RIDA3000-110-120-SW-2.4kW - RIDA3000-110-220-SW-2.8kW – RIDA3000-110-230-SW - RIDA3000-110-230-SW-4kW	76.9VDC		138.6VDC
	RIDA3000-120-230-SW-4.0kW	84.0VDC		152.0VDC
	RIDA3000-300-230-SW-4kW	289.6VDC		331.4VDC
Start-Up Voltage	RIDA3000-24-120-SW-2.4kW - RIDA3000-24-230-SW-2.4kW	17.9VDC		29.9VDC
	RIDA3000-36-120-SW-2.5kW - RIDA3000-36-230-SW	26.9VDC		44.9VDC
	RIDA3000-48-120-SW-2.4kW - RIDA3000-48-230-SW	35.9VDC		59.8VDC
	RIDA3000-72-120-SW-2.4kW - RIDA3000-72-230-SW	53.9VDC		89.7VDC
	RIDA3000-110-120-SW-2.4kW - RIDA3000-110-220-SW-2.8kW – RIDA3000-110-230-SW - RIDA3000-110-230-SW-4kW	82.4VDC		137.4VDC
	RIDA3000-120-230-SW-4.0kW	92.0VDC		149.0VDC
	RIDA3000-300-230-SW-4kW	310.3VDC		328.6VDC

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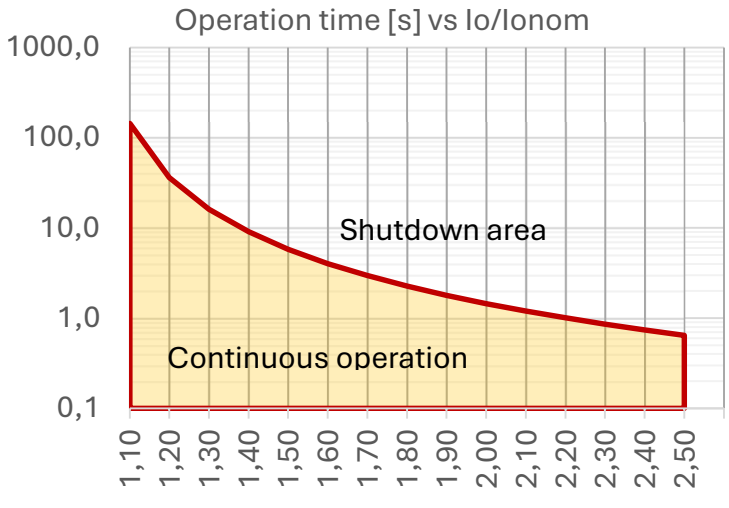
Parameter	Conditions	Min.	Typ.	Max.
	OUTPUT			
Rated Output Voltage	RIDA3000-24-120-SW-2.4kW - RIDA3000-36-120-SW-2.5kW – RIDA3000-48-120-SW-2.5kW - RIDA3000-72-120-SW-2.4kW – RIDA3000-110-120-SW-2.4kW		120VAC	
	RIDA3000-110-220-SW-2.8kW		220VAC	
	RIDA3000-24-230-SW-2.4kW - RIDA3000-36-230-SW – RIDA3000-48-230-SW - RIDA3000-72-230-SW - RIDA3000-110-230-SW - RIDA3000-110-230-SW-4kW - RIDA3000-120-230-SW-4kW – RIDA3000-300-230-SW-4kW		230VAC	
Output and Warning Current	RIDA3000-24-120-SW-2.4kW		20.0A	20.2A
	RIDA3000-36-120-SW-2.5kW - RIDA3000-48-120-SW-2.5kW - RIDA3000-72-120-SW-2.5kW - RIDA3000-110-120-SW-2.5kW		20.8A	21.1A
	RIDA3000-110-220-SW-2.8kW - RIDA3000-36-230-SW - RIDA3000-48-230-SW - RIDA3000-72-230-SW - RIDA3000-110-230-SW		13.0A	13.2A
	RIDA3000-24-230-SW-2.4kW		10.4A	10.6A
	RIDA3000-110-230-SW-4.0kW - RIDA3000-120-230-SW-4.0kW – RIDA3000-300-230-SW-4.0kW		17.4A	17.7A
Output Peak Current (min = Iopk 5s rms Max = Iopk 10ms)	RIDA3000-24-120-SW-2.4kW -	28.0A		52A
	RIDA3000-36-120-SW-2.5kW – RIDA3000-48-120-SW-2.5kW – RIDA3000-72-120-SW-2.4kW – RIDA3000-110-120-SW-2.4kW	32.0A		52A
	RIDA3000-110-220-SW-2.8kW - RIDA3000-24-230-SW-2.4kW – RIDA3000-36-230-SW – RIDA3000-48-230-SW – RIDA3000-72-230-SW - RIDA3000-110-230-SW	20.0A		32A
	RIDA3000-110-230-SW-4kW - RIDA3000-120-230-SW-4kW – RIDA3000-300-230-SW-4kW	22.0A		34A
Rated Output Frequency		50Hz		60Hz
Range Output Frequency		49.75Hz		60.25Hz
Max Output Power	RIDA3000-24-120-SW-2.4KW - RIDA3000-24-230-SW-2.4kW			2400W
	RIDA3000-36-120-SW-2.5kW - RIDA3000-48-120-SW-2.5kW - RIDA3000-72-120-SW-2.4kW - RIDA3000-110-120-SW-2.4kW			2500W
	RIDA3000-110-220-SW-2.8kW			2860W
	RIDA3000-36-230-SW - RIDA3000-48-230-SW - RIDA3000-72-230-SW - RIDA3000-110-230-SW			3000W
	RIDA3000-110-230-SW-4Kw - RIDA3000-120-230-SW-4kW – RIDA3000-300-230-SW-4kW			4000W
Load regulation				4%
Line regulation	Vin ±25%	-2%		+2%
	Vin ±30%	-10%		+10%
Output Wave Distortion THD	Average of 16 samples			2%
Output HF Ripple				2.5%
Output voltage of short circuit or deep overload	RIDA3000-24-120-SW-2.4kW - RIDA3000-36-120-SW-2.5kW – RIDA3000-48-120-SW-2.5kW - RIDA3000-72-120-SW-2.4kW – RIDA3000-110-120-SW-2.4kW			86VAC
	RIDA3000-110-220-SW-2.8kW			164VAC
	RIDA3000-24-230-SW-2.4kW - RIDA3000-36-230-SW – RIDA3000-48-230-SW - RIDA3000-72-230-SW - RIDA3000-110-230-SW -			164VAC
	RIDA3000-110-230-SW-4kW - RIDA3000-120-230-SW-4kW – RIDA3000-300-230-SW-4kW			214VAC
Time of short-circuit			1000ms	
Time of start-up	After shutdown by short-circuit		2000ms	
Number of start-up attempts after short circuit			5	
Start-up time after shutdown by overload	RIDA3000-24-120-SW-2.4kW - RIDA3000-36-120-SW-2.5kW – RIDA3000-48-120-SW-2.5kW - RIDA3000-72-120-SW-2.4kW – RIDA3000-110-120-SW-2.4kW		2000ms	
	RIDA3000-110-220-SW-2.8kW		2000ms	
	RIDA3000-24-230-SW-2.4kW - RIDA3000-36-230-SW – RIDA3000-48-230-SW - RIDA3000-72-230-SW - RIDA3000-110-230-SW -		1500ms	
	RIDA3000-110-230-SW-4kW - RIDA3000-120-230-SW-4kW – RIDA3000-300-230-SW-4kW		1000ms	

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CONTROL	
Parameter	**Conditions**
Output OK LED	Green
Alarm LED	Red
Output Failure Alarm	Isolated contact relay open when alarm (<0.3A at 150VDC)
Remote Signal	Inverter Off when applying 14.4-137.5VDC, Impedance > 22.5kΩ
Status and programming	RS232 port

ENVIROMENTAL CONDITIONS					
Parameter	**Conditions**		**Min.**	**Typ.**	**Max.**
Operating Temperature Range	PRB and PRT	at Full Load (EN50155 OT2)	-40°C		+55°C
		at 62.5% Load (EN50155 OT4)	-40°C		+70°C
	PRB50 and PRT50	options at Full Load (EN50155 OT2)	-50°C		+55°C
		at 62.5% Load (EN50155 OT4)	-50°C		+70°C
Storage Temperature Range	PRB and PRT		-40°C		+80°C
	PRB50 and PRT50		-50°C		+80°C
Operating Humidity Range	Non-Condensing		5%		95%
Storage and Transportation Humidity Range	Non-Condensing		5%RH		95%RH
Operating Altitude	at Full Load				2000m
	at 95% of load				2500m
Cooling	Controlled internal fan				
MTBF	MIL-HDBK-217-E; G_B, 25°C			100000h	

SAFETY AND PROTECTIVE FUNCTIONS				
Parameter	**Conditions**	**Min.**	**Typ.**	**Max.**
Dielectrics withstand voltage (@50Hz /1m)	Input – Output		3000VRMS	
	Input – P.E.		500VRMS	
	Output – P.E.		1500VRMS	
Internal warning temperature			88°C	
Internal shutdown temperature			92°C	
Internal restart temperature	After overtemperature shutdown		75°C	
Max Time for Overload or Internal Failure	unlimited			
Min Time Required Between Disconnection and Next Connection			2min	
Against over-temperature	Shutdown with auto-recovery		---	
Against overload	Current and I2T limited (see Overload Protection below)		---	
Maximum overload I^2t	See Overload Protection below			
Number of attempts of consecutive overload			5	

OVERLOAD PROTECTION		
Protection Against Overloads and Short-Circuit	By Current Limiting at Iopk By I^2t. The Unit Shutdown when the Current-Time is over the Continuous Operation Curve	
Overload Protection Recovery	Every 2 Seconds After Shutdown, the Unit tries to Restart Up to 5 Times. If the Overload Persists, the Unit Reminds Shutdown Until an Input Reconnection	

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CERTIFICATIONS	
Compliance	**Standard / Criterion**
RoHS Restriction of the use of certain hazardous substances in electrical and electronic equipment	2015/863/EU SI 2012 No 3032
RoHS2	RoHS 2011/65/EU + AM2015/863
CE	CE 2011
UKCA	UKCA 2021
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances	EN IEC63000: 2018
Fire Protection on Railway Vehicles	EN 45545-2 approved

CERTIFICATIONS	
Safety	
Compliance	**Standard / Criterion**
Low voltage the electrical equipment (safety) regulations	2014/35/EU SI 2016 No 1101
Audio/video, information and communication technology equipment Safety requirements	EN IEC 62368-1: 2024 A11:2024
Railway Applications - Electrical Equipment used on rolling stock*	EN50155: 2021*

*for BRT and BRT50 Option

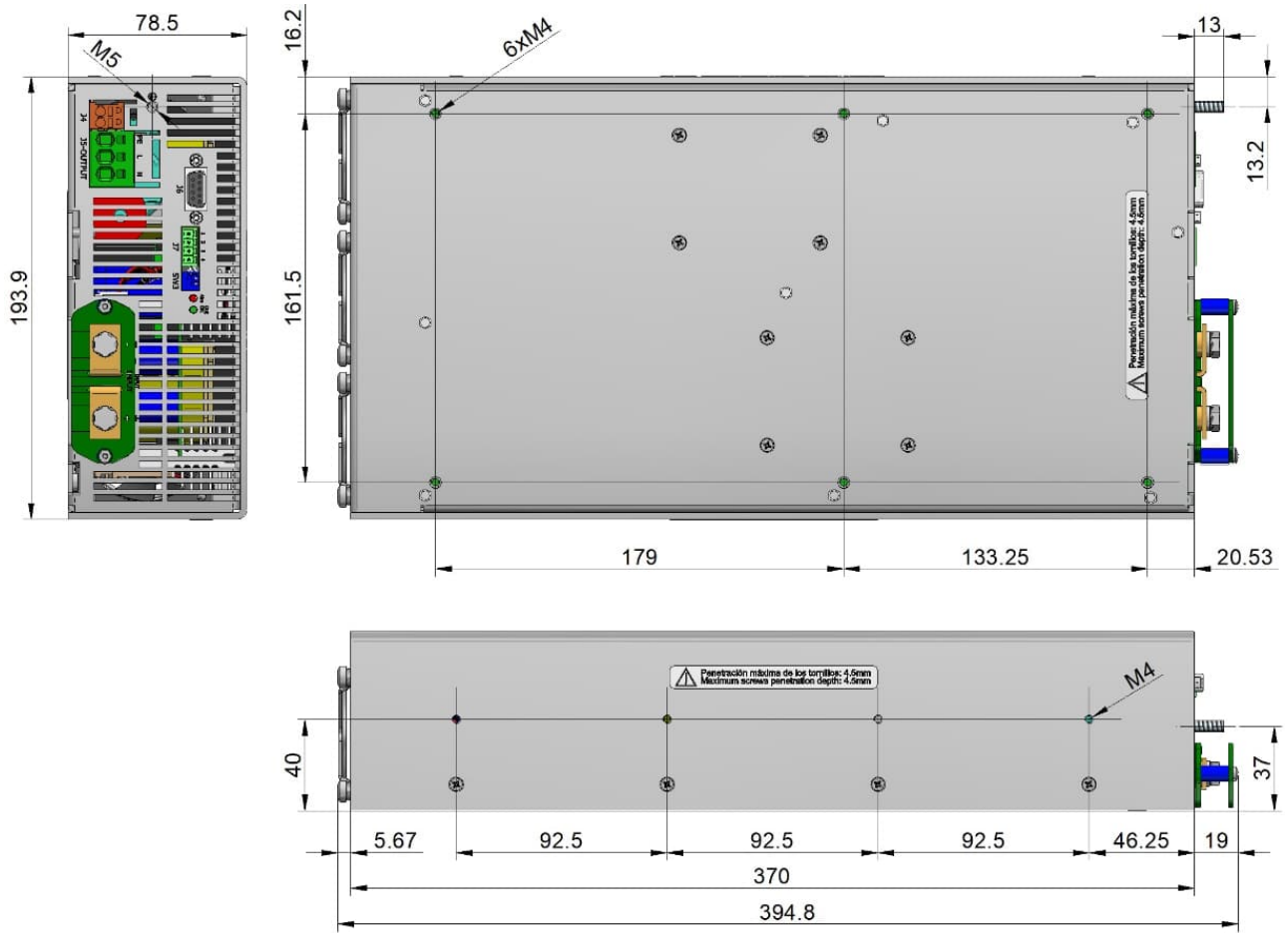
CERTIFICATIONS	
EMC Compliance	
Compliance	**Standard / Criterion**
EMC Electromagnetic compatibility regulations	2014/30/EU SI 2016 No 1091
Immunity according	EN61000-6-2: 2019
Emission according	EN61000-6-4: 2019
Railway applications. EMC Rolling stock equipment*	EN50121-3-2: 2016 A1: 2019*
Railway applications. EMC of the signalling and telecommunications apparatus*	EN50121-4: 2016* +A1:2019*

*for BRT and BRT50 Option

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MECHANICAL DATA				
Parameter	**Conditions**	**Min.**	**Typ.**	**Max.**
Weight				6000g 13.23lb
IP Protection Class			IP20	
Width			193.9mm - 7.63"	
Length			394.8mm - 15.54"	
Height			78.5mm – 3.09"	

DIMENSIONS



Maximum depth for the screws M4: 4.5mm

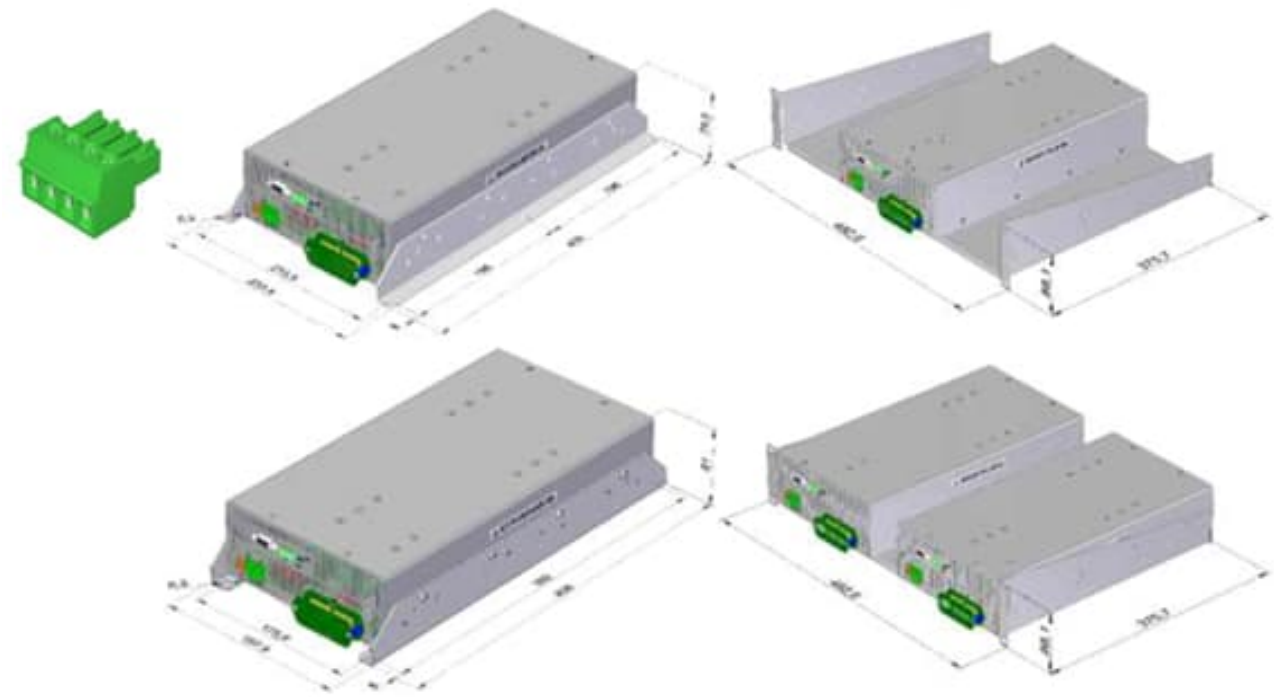
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ACCESSORIES

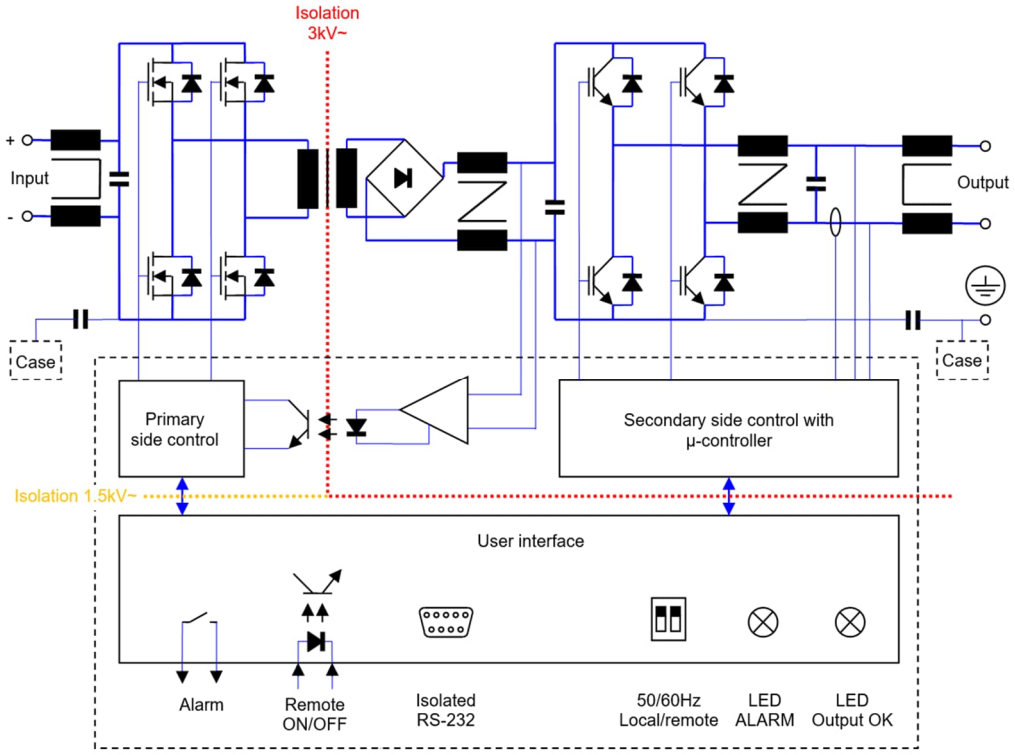
Description	Notes	Code
Signal Female Connector	Phoenix Contact	MC 1,5/ 4-ST-3,81
Mounting Brackets Kit	Contains Two Brackets and Screws	PR9282
2U 19" Rackmount Tray Kit	It Allows to Install One or Two Units	PR9353

Accessories must be ordered in a separate order line

Phoenix Contact	PR9282	PR9353



BLOCK DIAGRAM



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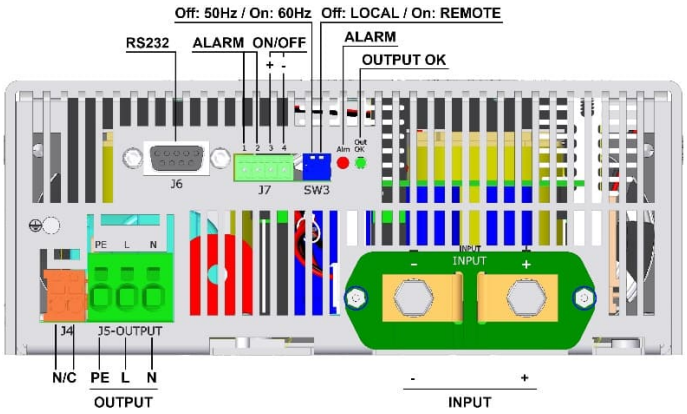
FUNCTIONALS

The RIDA3000-SW consists of single-phase sine-wave DC/AC inverters with galvanic isolation between input and output.
The unit allows:

- Select 50 / 60Hz by means of DIP-switch.
- Select local / remote (RS-232) by means of DIP-switch
- Shutdown applying voltage on pins 3 and 4 of signal connector
- Local signalization of Output OK by means of green LED
- Local alarm. Red LED ON when:
  - Output voltage is not OK
  - Output current > OUTPUT CURRENT ALARM
  - Input voltage out of margins
  - Unit shutdowns by over-current or remote OFF
  - Internal temperature > Internal warning temp.
- Alarm. Open contacts when output voltage is not OK
- Set and monitor parameters via RS-232.

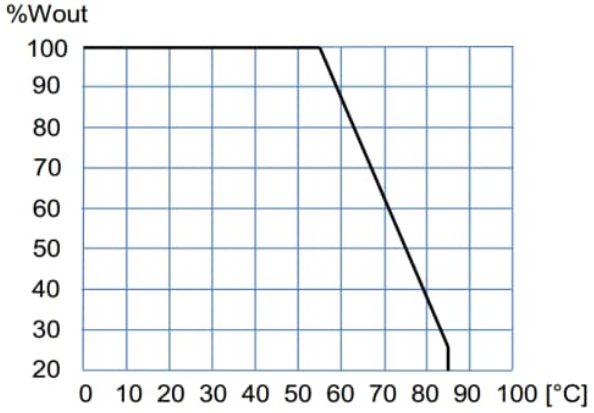
The RIDA3000-SW are equipped with a maximum average power protection as well as maximum output peak current protection. This protects the unit even when an output short-circuit occurs. It also features a disabled function for input under-voltage, which allows protecting the batteries from harmful discharges.

CONNECTIONS



INPUT	Terminals M6 (Rec. torque 6 Nm)
OUTPUT	Cable up to 4 mm^2
ALARM	Phoenix Contact MC1.5/4-G-3.81
ON/OFF	(See accessories)
RS232	DB9
N/C	Do not use

POWER DERATING vs AMBIENT TEMPERATURE



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START-UP

- The unit has 6 threaded holes for the fixation on a mounting surface.
- The unit has internal fans. For an appropriate cooling, the air input and output should be free of elements that cause and an air flow reduction (minimum recommended distance to other objects 50mm).
- Make connections as shown in the figure.
- The default output frequency is 50Hz. For 60Hz simply actuate the dip-switch as indicated in the figure.

For safety reasons, the following requirements must be met:

- Provide the equipment with some kind of protective enclosure that complies with the electrical safety directives in effect within the country where the equipment is installed
- Include a time lag input fuse o current breaker curve D with a rating immediately higher than the maximum input current.
- Use cables of adequate cross-sections to connect inputs and outputs.

Max. Current [A]	16	25	32	40	63	80	100	125	160	190
Section [mm^2]	**1.5**	**2.5**	**4**	**6**	**10**	**16**	**25**	**35**	**50**	**70**

For the installation of converter, the following must be adhered to:

- The converter must be installed at a secure location out of reach of the user. This is to prevent dangers such as accidental touching of HV components or skin burns on the hot housing.
- The converter should be installed at a dry location, safe from splashing water, dirt and stone chipping.
- The tightness of the converter can only be guaranteed if all signal wires to the signal connectors are assembled and connected to a tight unit on both sides. If this is not the case for a cable or wire, it must be sealed separately.
- The mechanical fixture is to be designed in such a way that the device is installed in a fixed position and with as little vibrations as possible.
- All cable connections must be secured with strain relief elements near the device (not included in the scope of delivery).
- Cable connections must have sufficient play and must not meet sharp-edged components.
- The enclosure should be sufficiently ventilated (no heat accumulation).

RS232 COMMUNICATION PORT

It is possible to control and monitor the unit via RS232 by means a terminal emulator like “Tera Term” or “Putty”.
Also, it is possible to control and monitor the unit directly using the protocol showed in table:
Protocol Configuration: ASCII Code, 19200Bauds, Parity None, 8Bits, 1Bit Stop



RS-232 Monitoring	RS-232 Settings
Input Voltage	Input under-voltage lockout
Output Voltage	Input under-voltage alarm
Output Current	ON / OFF
Internal Temperature	Output Frequency
Output Frequency	Maximum output current
Output Power	Output voltage

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Protocol configuration: ASCII code, 19200 bauds, parity none, 8 bits, 1 bit stop

Header		Function	Parameter		Returns	Explanation
P	R	L	V		PTV■■■.■	Input voltage in Volts
			U		PTU■■■.■	Output voltage in Volts RMS
			I		PTI■■■.■	Output current in Amps RMS
			T		PTT■■■.■	Internal temperature in ºC
			F		PTF■■■.■	Output frequency in Hz
			W		PTW■■■■	Output power in W
			S		PTS■■■.■	Inverter state 999.9→ Inverter enabled 000.0→ Inverter disabled 222.2→ Inverter blocked by overload 111.1→ Inverter blocked by overload or short-circuit
			M		PTM■■■■	Model number
			R		PTR■■■■	Firmware version
			Other character		PTE	Command not supported
		G	1	■■■.■	OK	Set the minimum input working voltage in Volts
					ERR	Value NO VALID for this parameter
			2	■■■.■	OK	Set the minimum alarm input voltage in Volts (it should be higher than PRG1)
					ERR	Value NO VALID for this parameter
			3	■■■.■	OK	Changes the status bit (after start-up enabled with SW3 =LOCAL and disabled with SW3 =REMOTE) 999.9→ Inverter enabled 000.0→ Inverter disabled
					ERR	Value NO VALID for this parameter
			4	■■■.■	OK	Set the output voltage in Volts RMS 80% V_{nom} ≤ ■■■.■≤ 105% V_{nom}
					ERR	Value NO VALID for this parameter
			5	■■■.■	OK	Set the maximum output current in Amps 20% I_{nom} ≤ ■■■.■≤ 100% I_{nom}
					ERR	Value NO VALID for this parameter
			6	■■■.■	OK	Changes the output frequency (it's not stored for the next start-up) 050.0→ 50Hz 060.0→ 60Hz
					ERR	Value NO VALID for this parameter
			7	■■■.■	OK	Set the OUTPUT CURRENT ALARM 0 ≤ ■■■.■≤ 100% $I_{max_warning}$
					ERR	Value NO VALID for this parameter
			8	■■■.■	OK	111.1→ Reset the inverter
					ERR	Value NO VALID for this parameter
			A	■■■.■	OR	Set the start-up voltage in volts (it should be higher than PRG1)
					ERR	Value NO VALID for this parameter

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WARRANTY AND GUARANTEE

The warranty corresponds to the regulations in our currently valid general terms and conditions.

INSTRUCTIONS REGARDING DISPOSAL

A basic requirement for the re-use and recycling of used electronic devices is the correct disposal. With the implementation of the electric and electronic device regulation, electronic devices may no longer be disposed of along with ordinary household waste but must be separately collected and recorded by a specialist service.
Disposal through a specialist service significantly helps to avoid dangers to people and nature. Therefore, in the case of disposal, we recommend contacting a recognized specialist disposal service.

REQUIREMENTS ON THE OPERATION PERSONNEL

All courses of action described in this manual may only be carried out by a qualified electrician! Specialist staff are defined as electricians who have had

- specific professional training
- have knowledge and experience in the field of electronics
- as well as knowledge of relevant provisions and dangers for which they can provide proof. Furthermore, they must be able to assess the work assigned to them independently, identify possible dangers, and establish necessary protection measures.

The product information and specifications may be subject to changes even without prior written notice. The product has been designed for various applications; its suitability lies in the responsibility of each customer. The products are not authorized for use in safety-critical applications without RECOM's explicit written consent. A safety-critical application is an application where a failure may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The applicant shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.

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