Technical Data Sheet

RIDA1500-SW / Inverter

1200W-1500W / Wide Range

RECOM
DC/AC INVERTER

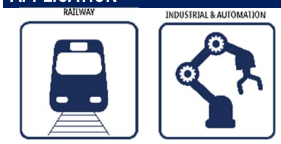
FEATURES

- 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: 360.5 x 161.6 x 65.6mm (14.19" x 6.36" x 2.58")

APPLICATION



SAFETY & EMC

- The inverter follows LVD Directive 2014/35/EU and EMC Directive 2014/30/EU.
- The inverter 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 RIDA1500 Series consists of single-phase sine-wave DC/AC inverters providing galvanic isolation between input and output. The series delivers nominal output power from 1200 W to 1500 W with selectable 120 VAC or 230 VAC output at 50 Hz or 60 Hz. A wide DC input voltage range covers 12 V, 24 V, 36 V, 48 V, 72 V and 110 VDC systems. The inverter features adjustable output voltage, high efficiency up to 91%, and reinforced input-output isolation rated at 3000 Vrms. Control and monitoring are available locally and via RS232, including status indication, parameter setting and alarm reporting through isolated relay contacts. Protection functions include overload, short-circuit, over-temperature and input voltage monitoring with automatic recovery. The RIDA1500 Series is designed for industrial and railway applications, with optional versions compliant with EN50155 and fire and smoke requirements according to EN45545-2, and meets CE, UKCA, LVD and EMC directives

MODELS

Part Number	Input Voltage nom. [VDC]	Input Current Max [A]	Output Voltage nom. [VAC]	Output Current Rated [A]	Output Power Max [W]
RIDA1500-12-120-SW-1.2kW	12	129.2	120	10.0	1200
RIDA1500-24-120-SW	24	101.5	120	12.5	1500
RIDA1500-36-120-SW*	36	67.64	120	12.5	1500
RIDA1500-48-120-SW	48	50.16	120	12.5	1500
RIDA1500-72-120-SW	72	33.44	120	12.5	1500
RIDA1500-110-120-SW	110	21.65	120	12.5	1500
RIDA1500-12-230-SW-1.2kW	12	127.7	230	5.2	1200
RIDA1500-24-230-SW	24	101.5	230	6.5	1500
RIDA1500-36-230-SW	36	66.88	230	6.5	1500
RIDA1500-48-230-SW	48	49.60	230	6.5	1500
RIDA1500-72-230-SW	72	33.07	230	6.5	1500
RIDA1500-110-230-SW	110	21.41	230	6.5	1500

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

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RECOM
DC/AC INVERTER

RIDA1500- - -SW- -

Nominal power
Nominal Input
Nominal Output

PRI Remote OFF reversed (ON: applying 14.4÷137.5V)
PRB Industrial version
PRT Railway version according to EN50155

Accessories must be ordered in a separate order line.

BASIC CHARACTERISTICS

Parameter	Conditions	Min.	Typ.	Max.
	INPUT			
Rated Input Voltage	RIDA1500-12-120-SW-1.2kW		12VDC	
	RIDA1500-24-120-SW		24VDC	
	RIDA1500-36-120-SW		36VDC	
	RIDA1500-48-120-SW		48VDC	
	RIDA1500-72-120-SW		72VDC	
	RIDA1500-110-120-SW		110VDC	
	RIDA1500-12-230-SW-1.2 kW		12VDC	
	RIDA1500-24-230-SW		24VDC	
	RIDA1500-36-230-SW		36VDC	
	RIDA1500-48-230-SW		48VDC	
	RIDA1500-72-230-SW		72VDC	
	RIDA1500-110-230-SW		110VDC	
Input Voltage Range	RIDA1500-12-120-SW-1.2 kW	10.8VDC		15.0VDC
	RIDA1500-24-120-SW	16.8VDC		30.0VDC
	RIDA1500-36-120-SW	25.2VDC		45.0VDC
	RIDA1500-48-120-SW	33.6VDC		60.0VDC
	RIDA1500-72-120-SW	50.4VDC		90.0VDC
	RIDA1500-110-120-SW	77.0VDC		138.0VDC
	RIDA1500-12-230-SW-1.2 kW	10.8VDC		15.0VDC
	RIDA1500-24-230-SW	16.8VDC		30.0VDC
	RIDA1500-36-230-SW	25.2VDC		45.0VDC
	RIDA1500-48-230-SW	33.6VDC		60.0VDC
	RIDA1500-72-230-SW	50.4VDC		90.0VDC
	RIDA1500-110-230-SW	77.0VDC		138.0VDC
Input Current Range (Min = No Load)	RIDA1500-12-120-SW-1.2 kW	1.5A		129.2A
	RIDA1500-24-120-SW	0.80A		101.5A
	RIDA1500-36-120-SW	0.51A		67.64A
	RIDA1500-48-120-SW	0.35A		50.16A
	RIDA1500-72-120-SW	0.28A		33.44A
	RIDA1500-110-120-SW	0.16A		21.65A
	RIDA1500-12-230-SW-1.2 kW	2.0A		127.7A
	RIDA1500-24-230-SW	1.0A		101.5A
	RIDA1500-36-230-SW	0.66A		66.88A
	RIDA1500-48-230-SW	0.45A		49.60A
	RIDA1500-72-230-SW	0.34A		33.07A
	RIDA1500-110-230-SW	0.21A		21.41A
Efficiency	RIDA1500-12-120-SW-1.2 kW		86%	
	RIDA1500-24-120-SW		88%	
	RIDA1500-36-120-SW		88%	
	RIDA1500-48-120-SW		89%	
	RIDA1500-72-120-SW		89%	
	RIDA1500-110-120-SW		90%	
	RIDA1500-12-230-SW-1.2 kW		87%	
	RIDA1500-24-230-SW		88%	
	RIDA1500-36-230-SW		89%	
	RIDA1500-48-230-SW		90%	
	RIDA1500-72-230-SW		90%	
	RIDA1500-110-230-SW		91%	
Input Ripple	Vin nom (Vims, 100Hz)			5%

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Parameter	Conditions	Min.	Typ.	Max.
OUTPUT				
Rated Output Voltage	RIDA1500-12-120-SW-1.2 kW - RIDA1500-24-120-SW – RIDA1500-36-120-SW - RIDA1500-48-120-SW - RIDA1500-72-120-SW - RIDA1500-110-120-SW		120VAC	
	RIDA1500-12-230-SW-1.2 kW - RIDA1500-24-230-SW – RIDA1500-36-230-SW - RIDA1500-48-230-SW - RIDA1500-72-230-SW - RIDA1500-110-230-SW		230VAC	
Rated Output Current	RIDA1500-12-120-SW-1.2 kW		10.0A	
	RIDA1500-24-120-SW – RIDA1500-36-120-SW - RIDA1500-48-120-SW - RIDA1500-72-120-SW - RIDA1500-110-120-SW		12.5A	
	RIDA1500-12-230-SW-1.2kW		5.2A	
	RIDA1500-24-230-SW - RIDA1500-36-230-SW - RIDA1500-48-230-SW - RIDA1500-72-230-SW - RIDA1500-110-230-SW		6.5A	
Output Peak Current (5s)	RIDA1500-12-120-SW-1.2kW		13.0A	
	RIDA1500-24-120-SW – RIDA1500-36-120-SW - RIDA1500-48-120-SW - RIDA1500-72-120-SW - RIDA1500-110-120-SW		20.0A	
	RIDA1500-12-230-SW-1.2kW		6.8A	
	RIDA1500-24-230-SW - RIDA1500-36-230-SW - RIDA1500-48-230-SW - RIDA1500-72-230-SW - RIDA1500-110-230-SW		10A	
Output Peak Current (Iopk) 10ms	RIDA1500-12-120-SW-1.2kW - RIDA1500-24-120-SW – RIDA1500-36-120-SW - RIDA1500-48-120-SW - RIDA1500-72-120-SW - RIDA1500-110-120-SW		30A	
	RIDA1500-12-230-SW-1.2kW - RIDA1500-24-230-SW – RIDA1500-36-230-SW - RIDA1500-48-230-SW - RIDA1500-72-230-SW - RIDA1500-110-230-SW		16A	
Rated Output Frequency			50/60Hz	
Range Output Frequency		49.75Hz		60.25Hz
Max. Output Power	RIDA1500-12-120-SW-1.2kW - RIDA1500-12-230-SW-1.2kW		1200W 1200VA	
	RIDA1500-24-120-SW - RIDA1500-36-120-SW - RIDA1500-48-120-SW - RIDA1500-72-120-SW - RIDA1500-110-120-SW - RIDA1500-24-230-SW - RIDA1500-36-230-SW - RIDA1500-48-230-SW - RIDA1500-72-230-SW - RIDA1500-110-230-SW		1500W 1500VA	
Load regulation				4%
Line regulation	Vin -25% ÷ +25%			2%
	Vin -30% ÷ +30%			10%
	RIDA1500-12-120-SW-1.2kW - RIDA1500-12-230-SW-1.2kW			4%
Output Wave Distortion THD	Average of 16 samples			2%
Output HF Ripple				2.5%

CONTROL	
Parameter	**Conditions**
Output OK LED	Green
Alarm LED	Red
Output Failure Alarm	Isolated contact relay open when alarm (<0.3A at 150VDC)
Remote OFF	Off applying 14.4÷137.5VDC, Impedance > 22k5 Ω [1]
Status and Programming	RS232 port

Note1: Only available depending on HW version. Former models were 4÷30V, Impedance 3k3Ω

ENVIRONMENTAL CONDITIONS				
Parameter	**Conditions**	**Min.**	**Typ.**	**Max.**
Operating Temperature Range	At full load (EN 50155 OT2)	-40°C		+55°C
	At 62.5% load (EN 50155 OT4)	-40°C		+70°C
Storage and Transportation Temperature Range		-40°C		+80°C
Operating Humidity Range		5%		95%
Storage and Transportation Humidity Range		5%		95%
Operating Altitude	Up to 2000m @ full load			
	Up to 2500m @ 95% of load			
Cooling	Controlled Internal Fan			
MTBF	MIL-HDBK-217-E; G_b,25°C		130000h	

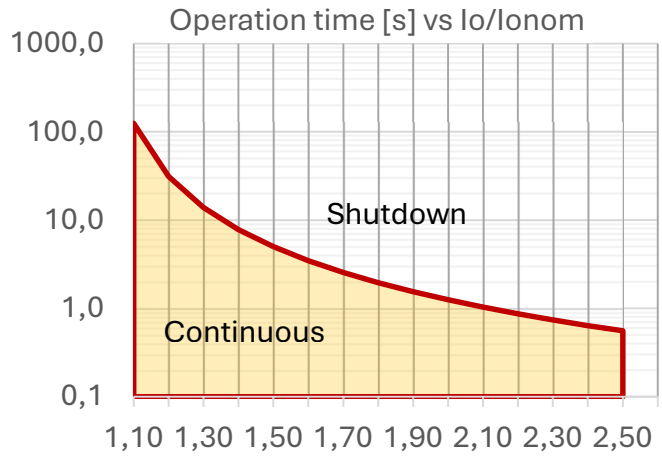
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SAFETY AND PROTECTIVE FUNCTIONS				
Parameter	**Conditions**	**Min.**	**Typ.**	**Max.**
Dielectrics withstand voltage (@50Hz /1min)	Input - Output		3000Vrms	
	Output – P.E.		1500Vrms	
	Input – P.E.		500Vrms	
Internal warning temperature			88°C	
Internal shutdown temperature			92°C	
Internal restart temperature after over-temperature shutdown			75°C	
Max Input Voltage Shutdown Instantaneous	RIDA1500-12-120-SW-1.2kW - RIDA1500-12-230-SW-1.2kW		16.8VDC	
	RIDA1500-24-120-SW - RIDA1500-24-230-SW		33.7VDC	
	RIDA1500-36-120-SW - RIDA1500-36-230-SW		50.6VDC	
	RIDA1500-48-120-SW - RIDA1500-48-230-SW		67.3VDC	
	RIDA1500-72-120-SW - RIDA1500-72-230-SW		100.9VDC	
	RIDA1500-110-120-SW - RIDA1500-110-230-SW		154.1VDC	
Max Input Voltage Shutdown Timed 0.1s	RIDA1500-12-120-SW-1.2kW - RIDA1500-12-230-SW-1.2kW		15.1VDC	
	RIDA1500-24-120-SW - RIDA1500-24-230-SW		30.1VDC	
	RIDA1500-36-120-SW - RIDA1500-36-230-SW		45.2VDC	
	RIDA1500-48-120-SW - RIDA1500-48-230-SW		60.1VDC	
	RIDA1500-72-120-SW - RIDA1500-72-230-SW		90.1VDC	
	RIDA1500-110-120-SW - RIDA1500-110-230-SW		138.6VDC	
Max Start-Up Voltage	RIDA1500-12-120-SW-1.2kW - RIDA1500-12-230-SW-1.2kW		14.9VDC	
	RIDA1500-24-120-SW - RIDA1500-24-230-SW		29.9VDC	
	RIDA1500-36-120-SW - RIDA1500-36-230-SW		44.9VDC	
	RIDA1500-48-120-SW - RIDA1500-48-230-SW		59.8VDC	
	RIDA1500-72-120-SW - RIDA1500-72-230-SW		89.7VDC	
	RIDA1500-110-120-SW - RIDA1500-110-230-SW		137.4VDC	
Min. Start-Up Voltage	RIDA1500-12-120-SW-1.2kW - RIDA1500-12-230-SW-1.2kW		10.6VDC	
	RIDA1500-24-120-SW - RIDA1500-24-230-SW		17.9VDC	
	RIDA1500-36-120-SW - RIDA1500-36-230-SW		26.9VDC	
	RIDA1500-48-120-SW - RIDA1500-48-230-SW		35.9VDC	
	RIDA1500-72-120-SW - RIDA1500-72-230-SW		53.9VDC	
	RIDA1500-110-120-SW - RIDA1500-110-230-SW		82.4VDC	
Min. Input Voltage Shutdown Timed 0.1s	RIDA1500-12-120-SW-1.2kW - RIDA1500-12-230-SW-1.2kW		10.0VDC	
	RIDA1500-24-120-SW - RIDA1500-24-230-SW		16.7VDC	
	RIDA1500-36-120-SW - RIDA1500-36-230-SW		25.1VDC	
	RIDA1500-48-120-SW - RIDA1500-48-230-SW		33.5VDC	
	RIDA1500-72-120-SW - RIDA1500-72-230-SW		50.3VDC	
	RIDA1500-110-120-SW - RIDA1500-110-230-SW		76.9VDC	
Min. Input Voltage Shutdown Instantaneous	RIDA1500-12-120-SW-1.2kW - RIDA1500-12-230-SW-1.2kW		9.6VDC	
	RIDA1500-24-120-SW - RIDA1500-24-230-SW		14.4VDC	
	RIDA1500-36-120-SW - RIDA1500-36-230-SW		21.6VDC	
	RIDA1500-48-120-SW - RIDA1500-48-230-SW		28.7VDC	
	RIDA1500-72-120-SW - RIDA1500-72-230-SW		43.1VDC	
	RIDA1500-110-120-SW - RIDA1500-110-230-SW		65.9VDC	
Output Voltage of Short Circuit or Deep Overload	RIDA1500-12-120-SW-1.2kW - RIDA1500-24-120-SW – RIDA1500-36-120-SW - RIDA1500-48-120-SW - RIDA1500-72-120-SW - RIDA1500-110-120-SW			86VAC
	RIDA1500-12-230-SW-1.2kW - RIDA1500-24-230-SW – RIDA1500-36-230-SW - RIDA1500-48-230-SW - RIDA1500-72-230-SW - RIDA1500-110-230-SW			164VAC
Time of Short-Circuit			1000ms	
Time of Start-Up after Shutdown by Short-Circuit			2000ms	
Number of Start-Up Attempts After Short Circuit			5	
Warning Current	RIDA1500-12-120-SW-1.2kW		10A	
	RIDA1500-24-120-SW – RIDA1500-36-120-SW - RIDA1500-48-120-SW - RIDA1500-72-120-SW - RIDA1500-110-120-SW		12.5A	
	RIDA1500-12-230-SW-1.2kW		5.2A	
	RIDA1500-24-230-SW – RIDA1500-36-230-SW - RIDA1500-48-230-SW - RIDA1500-72-230-SW - RIDA1500-110-230-SW		6.5A	

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Parameter	Conditions	Min.	Typ.	Max.
Start-up Time After Shutdown by Overload	RIDA1500-12-120-SW-1.2kW		1000ms	
	RIDA1500-24-120-SW – RIDA1500-36-120-SW - RIDA1500-48-120-SW - RIDA1500-72-120-SW - RIDA1500-110-120-SW		2000ms	
	RIDA1500-12-230-SW-1.2kW		1000ms	
	RIDA1500-24-230-SW – RIDA1500-36-230-SW - RIDA1500-48-230-SW - RIDA1500-72-230-SW - RIDA1500-110-230-SW		1500ms	
Number of Attempts of Consecutive Overload			5	
Max Time for Overload or Internal Failure	Unlimited			
Min Time Required Between Disconnection and Next Connection			2min	
Protection Against Overload	Current and I^2T limited (see overload protection)			
Protection Against Over-temperature	Shutdown with auto-recovery			
Maximum overload I^2t	See figure below			

OVERLOAD PROTECTION

Protection Against Overloads and Short-Circuit	By **Current** Limiting at Iopk By **I²t**. 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 Remains Shutdown Until an **Input Reconnection**.	

CERTIFICATIONS

Environmental (Railway Standards)	
Compliance	**Standard / Criterion**
RoHS2	2011/65/EU Annex II
RoHS Restriction of the use of certain hazardous substances in electrical and electronic equipment	2015/863/EU SI 2012 No. 3032
CE	CE marking year: 2010
UKCA	UKCA marking year 2021
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances	EN IEC 63000: 2018
Fire Protection on Railway Vehicles	EN45545-2 approved
Shock and Vibration	EN61373:2010+Corr1:2011 Cat.1 Class B

CERTIFICATIONS

Safety	
Compliance	**Standard / Criterion**
Low voltage the electrical equipment (safety) regulations	EN60950-1, EN62368-1
Railway Applications - Electrical Equipment used on rolling stock (Option PRT)	EN50155: 2021

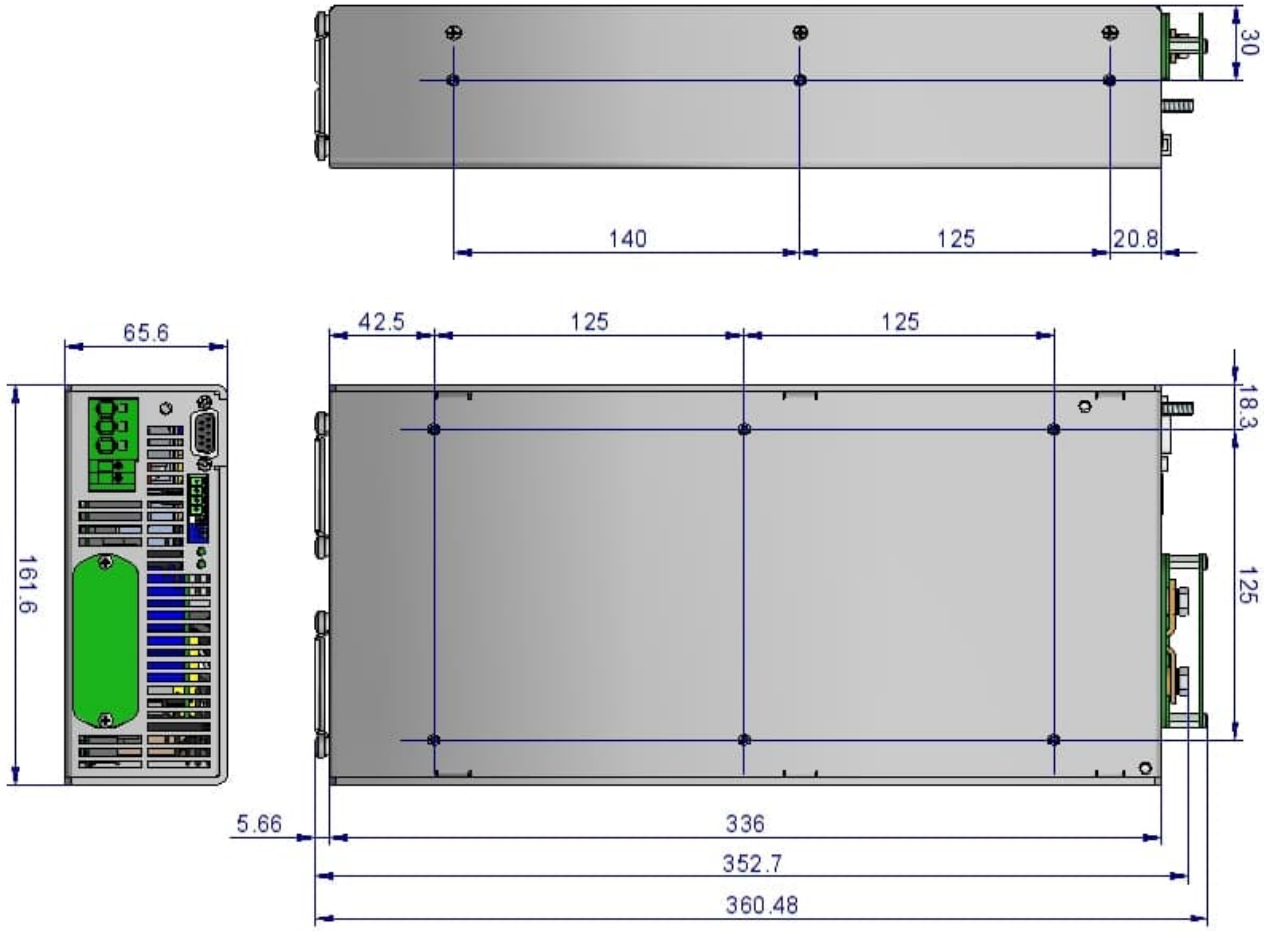
CERTIFICATIONS

EMC Compliance	
Compliance	**Standard / Criterion**
EMC Electromagnetic compatibility regulations	2014/30/EU SI 2016 No 1091
Generic Immunity standard	EN 61000-6-2: 2019
Generic Emission standard	EN 61000-6-4: 2019
Railway applications. EMC Rolling stock equipment (option PRT)	EN 50121-3-2: 2016 + A1: 2019
Railway applications. EMC of the signalling and telecommunications apparatus (option PRT)	EN50121-4: 2016 +A1:2019

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MECHANICAL DATA				
Parameter	**Conditions**	**Min.**	**Typ.**	**Max.**
Weight				3800g 8.38lb
Protective Coating for PCB assemblies			Class PC2	
Width			360.5mm – 14.19”	
Length			161.6mm – 6.36”	
Height			65.6mm – 2.58”	

DIMENSIONS



Fixing screws of the base: 6 x M4, maximum penetration depth 3.5mm

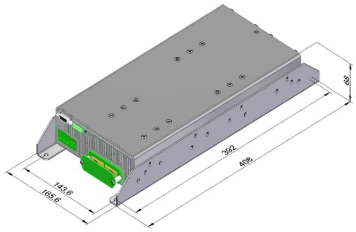
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ACCESSORIES

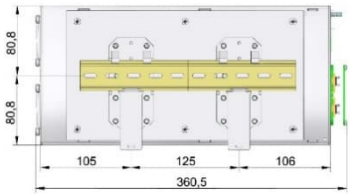
Description	Notes	Code
Mounting Brackets Kit	Contains Two Brackets and Screws	PR9282
DIN Rail Assembly Kit	Screw included	PR9339
2U 19" Rack mounting Tray Kit	It Allows to Install One or Two Units	PR9353
Signals Female Connector	Phoenix Contact MC1.5/4-ST-3.81	2601-409

Accessories must be ordered in a separate order line

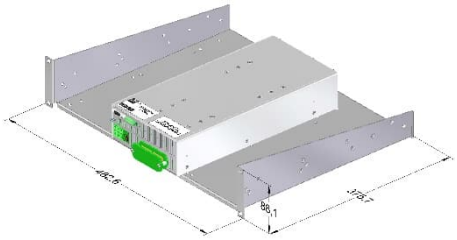
PR9282



PR9339

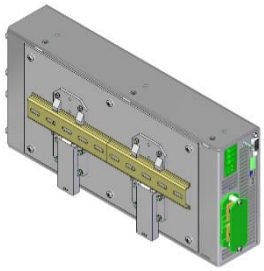


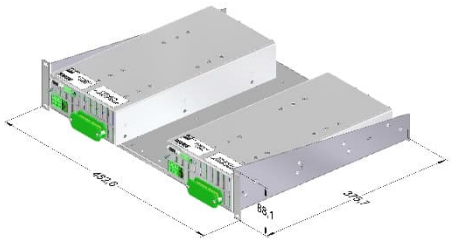
PR9353



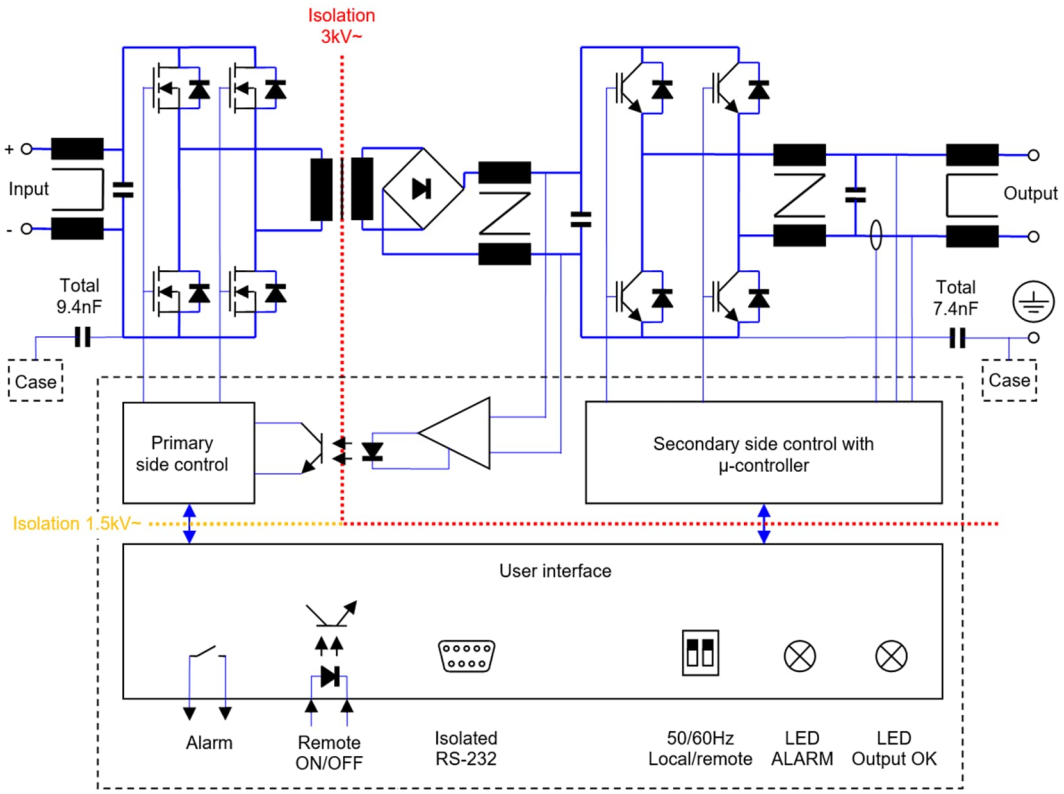
2601-409







BLOCK DIAGRAM



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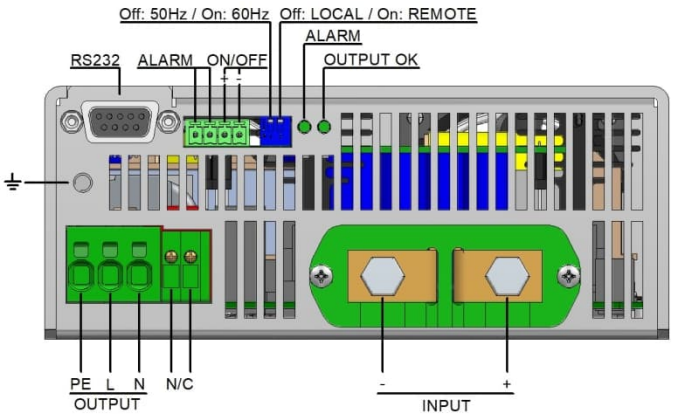
DESCRIPTION

The RIDA1500 Series 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
- Alarm. Open contacts when output voltage is not OK
- Set and monitor parameters via RS-232.

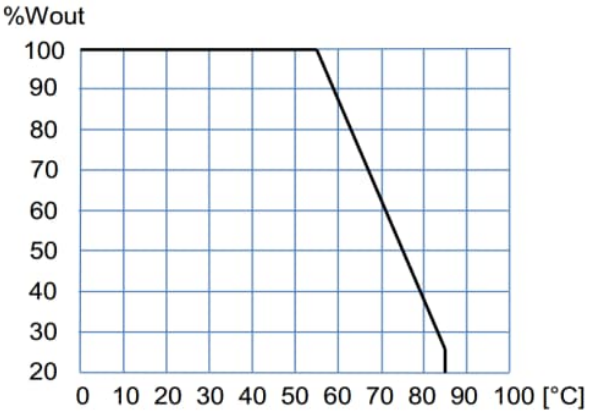
The RIDA1500 Series are equipped with a maximum average power protection as well as maximum output peak current protection. This protects the unit even when an output short-circuit occurs. It also features a disabled function for input under-voltage, which allows protecting the batteries from harmful discharges.

CONNECTIONS



Connection	Notes
Input	Terminal M6 (Rec. Torque 6Nm)
Output	Cable Up to 4mm²
Earth	Bolt M5 (Rec. Torque 3.8 Nm)
Alarm	Phoenix Contact MC1.5/4-G-3.81 (See Accessories)
ON/OFF	
RS232	DB9
N/C	Do Not Use

POWER DERATING vs AMBIENT TEMPERATURE



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INSTALLATION

- 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 an air flow reduction (minimum recommended distance to other objects 50 mm).
- Make connections as shown in the figure.
- The default output frequency is 50 Hz. For 60 Hz 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 an input fuse with a rating immediately higher than the maximum input current.
- As per the input and output currents indicated in the table on page 3, choose the appropriate cable cross-section according to the maximum rated current indicated in the following table:

Max. current	16A	25A	32A	40A	63A	80A	100A	125A	160A	190A
CABLE CROSS-SECTION	1.5mm^2	2.5mm^2	4mm^2	6mm^2	10mm^2	16mm^2	25mm^2	35mm^2	50mm^2	70mm^2

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

- The inverter 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 inverter should be installed at a dry location, safe from splashing water, dirt and stone chipping.
- The tightness of the inverter 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).

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RS232 COMMUNICATION PORT

It is possible to control and monitor the unit via RS232 by means a terminal emulator like “Tera Term” or “Putty”.
Check our guide: Serial connection Guide.
Also, it is possible to control and monitor the unit directly using the protocol showed in table:

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% Vnom ≤ ■■■.■≤ 105% Vnom
					ERR	Value NO VALID for this parameter
			5	■■■.■	OK	Set the maximum output current in Amps 20% Inom ≤ ■■■.■≤ 100% Inom
					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% Imax_warning
					ERR	Value NO VALID for this parameter
			8	■■■.■	OK	**111.1** → Reset the inverter
					ERR	Value NO VALID for this parameter
			A	■■■.■	~~0~~OK	Set the start-up voltage in volts (it should be higher than PRG1)
					ERR	Value NO VALID for this parameter

A null modem F-M is required:



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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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