

Data Sheet

RADIUS iUNO



PHOTOVOLTAIC STRING INVERTERS



Generate



Measure



Control



Record



Analyze

DESCRIPTION

Rishabh, a leader in industrial sector with vast experience and knowhow, presents the new range of single phase photovoltaic inverters, Radius iUNO. The iUNO range of inverters conforms to the most advanced international standards and meets the requirements of even the most modern solar power plant installations.

The higher energy yields, long term reliability, plant monitoring and high level professional service are the corner-stones of the RADIUS range of inverters.



150%

DC OVERLOADING

550V

System Voltage



Higher Yields



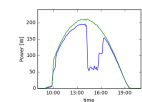
Indoor & Outdoor
Installation

50°C

Full Power without
Derating



Natural Ventilation
Minimizes Breakdown



PV string Analysis
& Comparison



Download on the
App Store
Intuitive New
User Interface



Inbuilt
Surge Protection
Devices



Integrated Datalogger
for fault analysis



Optimize Your Cost
Choose 1MPPT



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CHOOSING THE INVERTER - TECHNICAL DATA

RADIUS - iUNO																		
Input data				0.85kW-1M	1kW-1M	1.5kW-1M	2kW-1M	2.5kW-1M	3kW-1M	3.3kW-1M	3.6kW-1M	3.8kW-1M	4.0kW-1M	4.2kW-1M	4.4kW-1M	4.6kW-1M	4.8kW-1M	5kW-1M
	Maximum DC voltage	V _{DC} max	[V]	550														
	MPPT Operating Range		[V]	50V-490V														
	Start up voltage/Nominal(Rated Voltage)		[V]	60V/360V														
	Max. Recommended PV Power (balanced input)		[Wp]	1275	1500	2250	3000	3750	4500	4950	5400	5700	6000	6300	6600	6900	7200	7500
	MPPT number	No. MPPT		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Number of strings per MPPT	No.		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Maxm DC current per MPPT	I _{max}		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	Max ^m Short Circuit Current	I _{sc}	[A]	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Output data	Rated AC Power/Max ^m AC Power	P _{NOM/MAX} AC	[W/VA]	850/935	1000/1100	1500/1650	2000/2200	2500/2750	3000/3300	3300/3630	3600/3960	3800/4180	4000/4400	4200/4620	4400/4840	4600/5060	4800/5280	5000/5500
	AC rated current/Max current	I _{AC} Nom/max	[A]	3.7/4.1	4.3/4.7	6.5/7.1	8.6/9.5	10.8/11.9	13/14.3	14.3/15.7	15.6/17.1	16.5/18.1	17.3/19.1	18.2/20	19.1/21.1	20.0/22.0	20.8/22.8	21.7/23.8
	AC voltage	V _{AC}	[V]	{(220V _{LN})/(230V _{LN})/(240V _{LN})} {output voltage Range (184...277V _{LN})} ^{m)}														
	Rated AC frequency	f _{AC}	[Hz]	50/60Hz (Output frequency range 45-55/55-65 Hz) ⁿ⁾														
	Grid connection			TN-C/TN-S/TN-C-S/TT														
	Current THD	THDi	[%]	≤3 ²⁾														
	Power factor (settable)	cosphi		+/- 0.8														
Efficiency	Maximum efficiency		[%]	97.2	97.2	97.3	97.2	97.5	97.5	97.4	97.3	97.3	97.4	97.4	97.4	97.6	97.7	97.4
	European efficiency (η _{Euro})		[%]	97.1	97.1	97.2	97.0	97.3	97.3	97.3	97.2	97.1	97.2	97.2	97.3	97.4	97.3	97.2
Protections	Interface protections(grid monitor)			Integrated														
	Anti-islanding			Integrated (Where required by local regulations)														
	Insulation control			Integrated														
	Residual current monitoring			Integrated														
	Reverse DC polarity protection			Integrated														
	AC/DC overvoltage & Surge Protection			Inbuilt AC SPD & DC SPD (SPD failure detection and indication through alarm)														
	DC injection control			Integrated														
	DC circuit breaker			Circuit breaker under load(optional)														
	DC fuses & string failure detection			20A/25A fuses on both poles of each string(optional)														
	Night Consumption(Standby loss)			<1W.														

¹⁾ The output voltage and frequency interval may vary according to the network connection standard

²⁾ For THDv < 1% and P_{out} > 60% of P_{rated}

Note: In case of a SPD failure the inverter will stop the power generation, until the failed SPD is replaced to protect the inverter from damages due to overvoltage/surge.



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CHOOSING THE INVERTER - TECHNICAL DATA

RADIUS - iUNO														
Interface	User Interface	LED indicators Display,LCD/OLED Display/optional and local monitoring via mobile App by BT connection (only for firmware updates and downloading of historical data)/optional												
	Communications	RS485/WIFI/GPRS/4G/Ethernet/Bluetooth/ Cloud Server Communication												
	Inputs/Outputs	Analog Input, digital output / optional												
Environmental Data	Cooling	Natural Convection												
	Temperature Range	-25 °C.... +60 °C(No derating upto 50°C) ⁽³⁾												
	Noise Emission(Typical)	<35dB(A)												
	Vibration	1G												
	IP protection degree	IP 66												
	Environmental conditions	4K4H												
	Maximum permissible value for relative humidity, non condensing	0 %RH ~ 100 %RH												
	Pollution degree	EN 60721-3-4, free from direct solar radiation To avoid increase in the internal temperature of the inverter and cause a reduction of the output power (derating)												
Dimension & Weight	Altitude	Up to 3000m												
	Dimensions	WxHxD: 336 x 256 x 155mm												
Standards	Weight(Kg) ⁽⁴⁾	6Kg												
	Approvals	IEC 60068-2-1/2/14/30, IEC 61727, IEC 62109-1/2, IEC 62116, EN50530, IEC 61683, IEC 60529, IEC 61000-6-3/2, CE, VDE-0126, BIS Registered ^(4a) .												

⁽³⁾ Refer user manual for power derating versus temperature curves

⁽⁴⁾ Weight without packaging and mounting bracket

^(4a) For the details of the registered models please consult with our Sales team.



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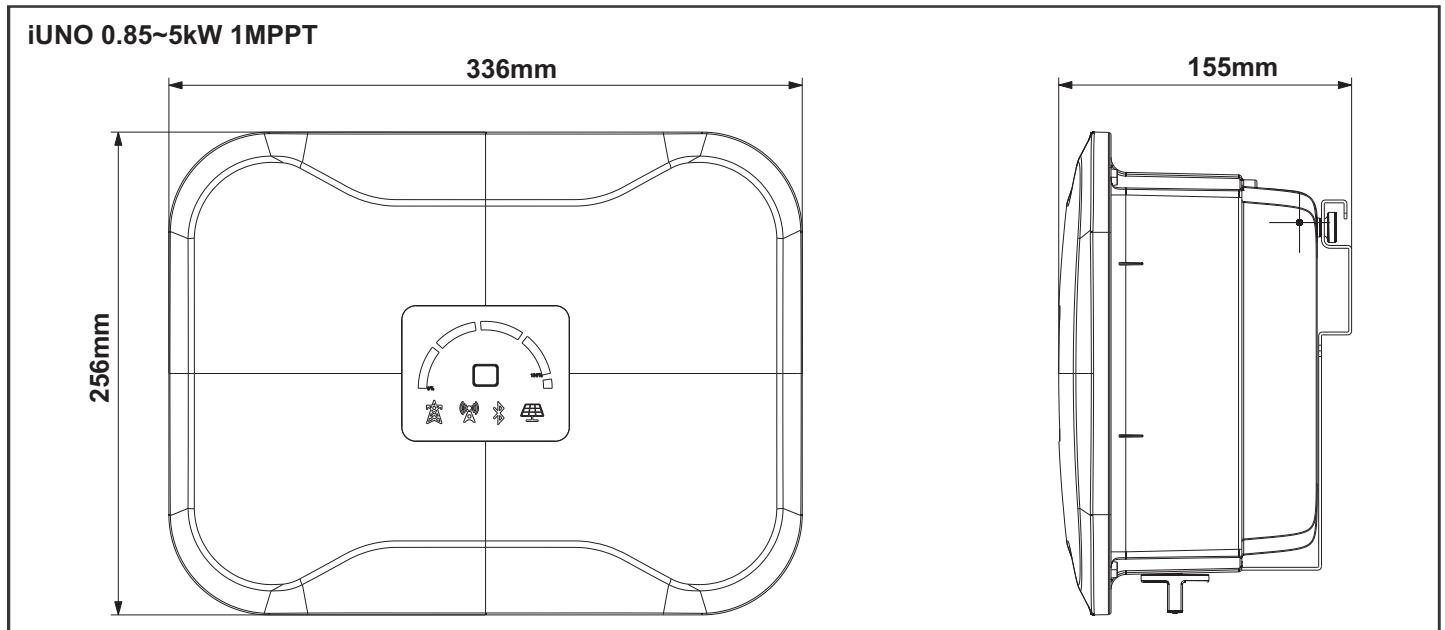


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RADIUS - iUNO MODEL DIMENSION



MODEL CODE DESCRIPTION

iUNO -INV(I)	-XkXX	-XM	BT	D	X	X	X	XX	

Photovoltaic single phase string inverter, iUNOseries

NOTE: Final model code must be confirmed by our sales team before placing the order.



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SOLAR ON-GRID INVERTERS from



RISHABH



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These specifications may be changed without notice.

RV0.03-06/25