



RISHABH

Data Sheet

RADIUS NEO



PHOTOVOLTAIC STRING INVERTERS



Generate



Measure



Control



Record

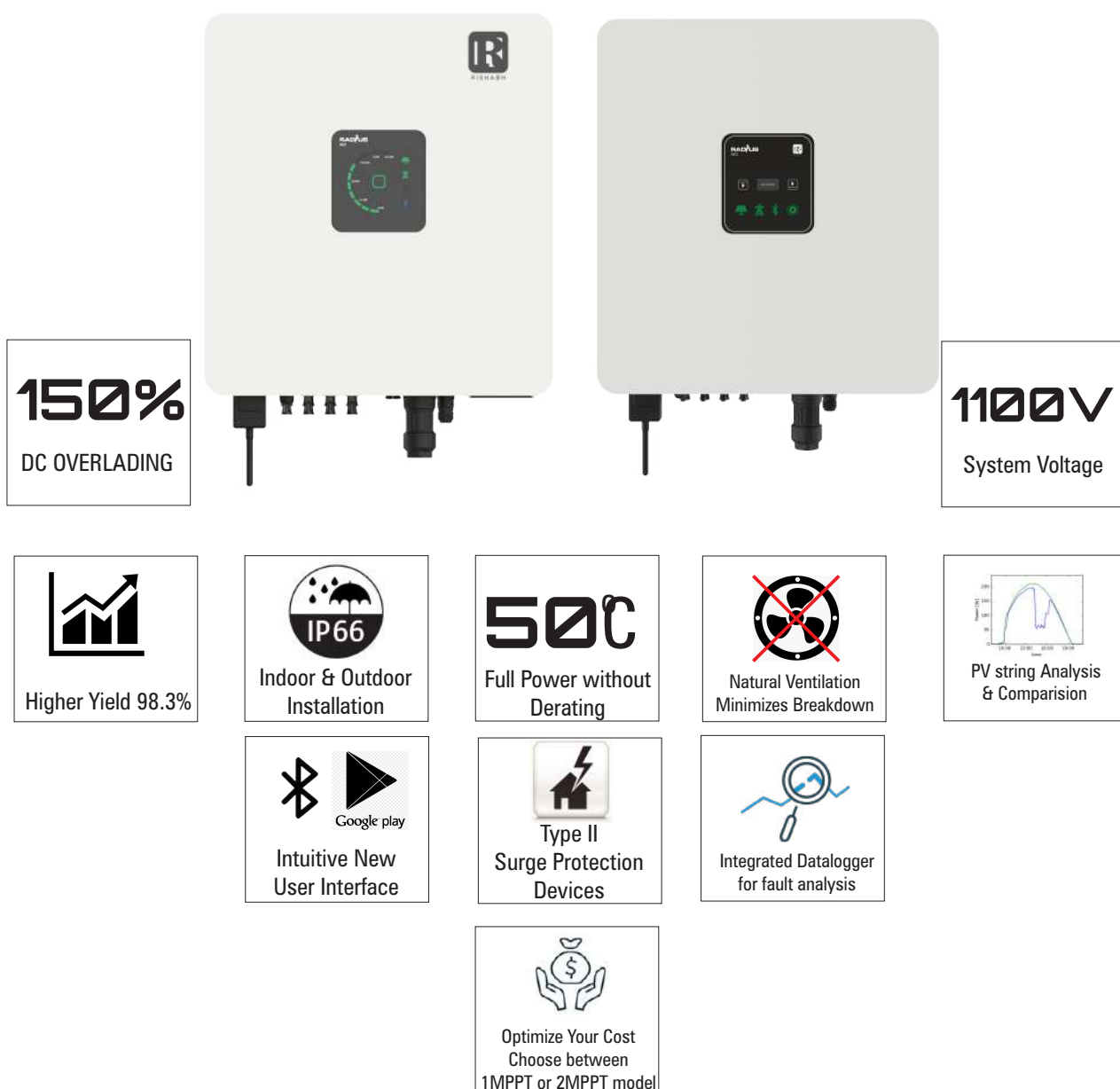


Analyze

DESCRIPTION

Rishabh, a leader in industrial sector with vast experience and knowhow, presents the new range of PV inverters RADIUS-NEO. The NEO range of inverters conforms to the most advanced international standards and meets the requirements of the industrial and civil solar 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.



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CHOOSING THE INVERTER - TECHNICAL DATA

RADIUS - NEO																		
Input Data				3kW-1M/2M	4kW-1M/2M ⁵⁾	5kW-1M/2M	6kW-1M/2M ⁵⁾	7kW-1M/2M	8kW-1M/2M	9kW-1M/2M	10kW-1M/2M	12kW-1M/2M	15kW-2M	18kW-2M	20kW-2M			
				Maximum DC voltage											V _{DC} max	[V]	1100	
				MPPT Operating Range											[V]	175..950		
				Start up voltage/Nominal Voltage											[V]	>200/600		
Max. Recommended PV Power (balanced input)				[Wp]	4500	6000	7500	9000	10500	12000	13500	15000	18000	22500	27000	30000		
MPPT number				No. MPPT	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	2	2	2			
Number of strings per MPPT				No.	1/1	1/1	1/1	1/1	2/1	2/1	2/1	2/1	2	2	2			
Maxm DC current per MPPT				I _{max}	15/15	15/15	15/15	15/15	25/15	25/15	25/15	25/15	25	25	25			
Maxm Short Circuit Current				I _{sc} [A]	20/20	20/20	20/20	20/20	32/20	32/20	32/20	32/20	32	32	32			
Output Data				Rated AC Power/ Maxm AC Power	P _{NOM/MAX} AC [kW/kVA]	3.0/3.3	4.0/4.4	5.0/5.5	6.0/6.6	7.0/7.7	8.0/8.8	9.0/9.9	10.0/11.1	12.0/13.2	15.0/16.5	18.0/19.8	20.0/22.0	
				AC rated current/Max current	I _{AC} Nom/max [A]	4.3/4.7	5.7/6.3	7.2/7.9	8.6/9.5	10.0/11.1	11.5/12.7	13.0/14.3	14.4/16.0	17.3/19.2	21.7/23.9	26.1/28.6	28.9/32.0	
				AC voltage	V _{AC} [V]	((239V _{LN} /415V _{LL} 3-phases + Neutral)/(230V _{LN} /400V _{LL} 3-phases + Neutral)) (output voltage Range (320 ... 480V _{LL}) / (184...277V _{LN})) ¹⁾												
				Rated AC frequency	f _{AC} [Hz]	50/60Hz (Output frequency range 47..53/57..63) ¹⁾												
				Grid connection	TN-C/TN-S/TN-C-S/TT													
				Current THD	THDi [%]	≤3 ²⁾												
				Power factor (settable)	cosphi	+/- 0.8												
Efficiency	Maximum efficiency	[%]	98.3	98.3	98.1	98.1	98.2	98.3	98.3	98.3	98.1	98.1	98.1	98.1				
	European efficiency(η _{Euro})	[%]	97.7	97.7	97.7	97.7	97.8	98	97.6	97.6	97.6	97.6	97.6	97.6				
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				AC SPD : Type 2 Pluggable , DC SPD: Type 2 ³⁾ (SPD failure detection and indication through alarm)													
	DC injection control				Integrated													
	DC circuit breaker				Circuit breaker under load													
	DC fuses & string failure detection				25A/20A/15A/12A fuses(Optional) + current sensors for each string													
	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 Pout > 50% of Prated

⁽³⁾ Optional Type II SPDs(Type III SPDs are standard in each model)

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

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		3kW-1M/2M	4kW-1M/2M ⁽⁴⁾	5kW-1M/2M	6kW-1M/2M ⁽⁵⁾	7kW-1M/2M	8kW-1M/2M	9kW-1M/2M	10kW-1M/2M	12kW-1M/2M	15kW-2M	18kW-2M	20kW-2M
Interface	User Interface	BT LED indications/OLED Display and Bluetooth App for onsite data monitoring and analysis											
	Communications	2 Rs485 ports (Port A for WiFi Dongle and Port B for local data monitoring(Optional)) 1 standard USB port (Optional) Inbuilt Datalogger for historical and event analysis											
	Inputs/Outputs	24V _{OUT} (50mA MAX)(Optional) Typically used to energize the external sensors of weather station											
Cooling		Natural Convection											
Environment Data	Temperature Range	-20°C ...+60°C ⁽⁶⁾											
	Noise Emission(Typical)	<35dB(A)											
	Vibration	1G											
	IP protection degree	IP 66											
	Environmental conditions	4K4H											
	Maximum permissible value for relative humidity, non condensing	100%											
	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)											
Altitude		Up to 3000m											
Dimensions & Weight	Dimensions	WxHxD: 471 x 442 x 204mm									WxHxD: 496 x 542 x 245mm		
	Weight(Kg) ⁽⁴⁾	19/20	19/20	19/20	19/20	24/26	24/26	24/26	24/26	24/26	38	38	38
Standards		IEC 60068-2-1/2/14/30, IEC 61727, IEC 62109-1/2, IEC 62116, IEC 61683, IEC 60529, IEC 610006-3/2, CE, BIS Registered ^(6a)											

⁽⁴⁾ Weight without packaging and mounting bracket

⁽⁵⁾ Only PTPIREE certificates are available for 4kW and 6kW inverter models.

NOTE: The OND files for all the above models are available in PVSyst software.

⁽⁶⁾ Refer user manual for power derating versus temperature curves

^(6a) To get the latest details of BIS registration, contact our Sales & Support team



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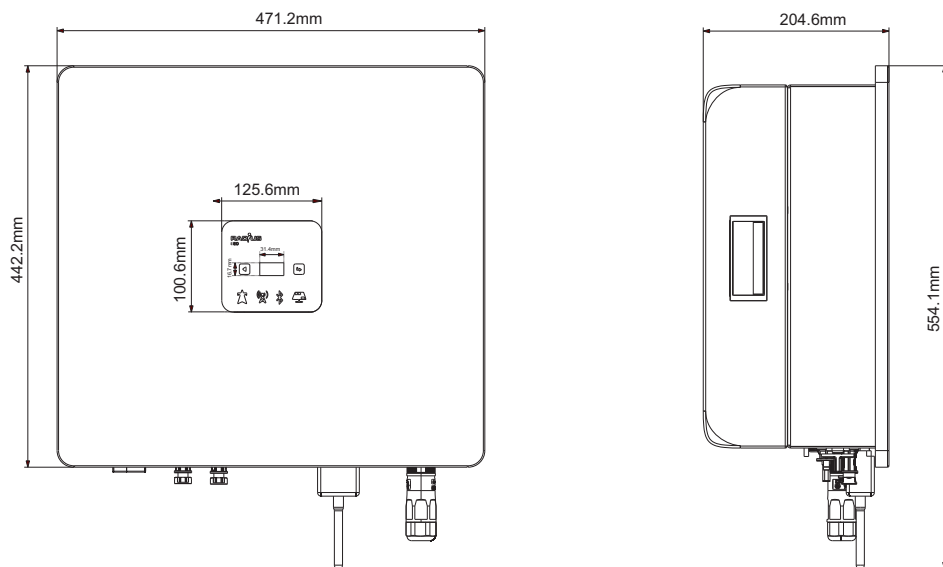
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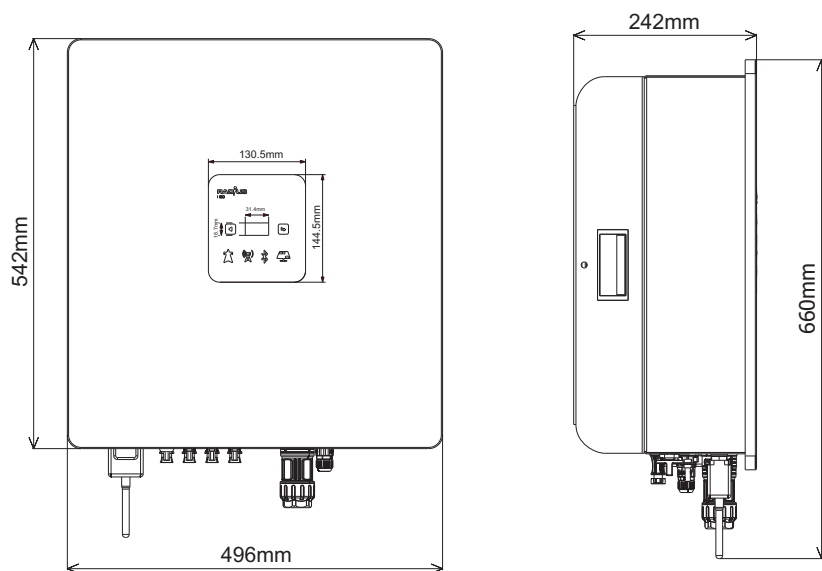
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RADIUS - NEO MODEL DIMENSION

RADIUS - NEO 3kW...12kW 1/2 MPPT 3PH



RADIUS - NEO 15kW...20kW 2MPPT 3PH



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RADIUS - NEO MODEL DIMENSION

CODE DESCRIPTION

NEO/ PVSA /APVS	-xxk	-xx	-TL-xM	x	x	x	x	xx			
									Display Option	XX = LED Indicators DX = OLED & LED Indicators	
									External Stick Option	X = not included S = External Stick	
									Remote Monitoring System	X = not included G = GSM	E = Ethernet W = WiFi
									Inline connector DC fuses	X = not included F = included	
									Dc circuit breaker under load	S = included	
									MPPT number	1M = 1 MPPT 2M = 2 MPPT	
									Transformer:	TL = Transformer Less	
									MPPT numbers	AE = Advanced Energy	
									Inverter power in kW:	09k = 9kW/9.9 kVA 10k = 10kW/11.1 kVA 12k = 12 kW/13.2 kVA 15k = 15 kW/16.5 kVA 18k = 18 kW/19.8 kVA 20k = 20 kW/22 kVA	08k = 8 kW/8.8 kVA 07k = 7 kW/7.7 kVA 06k = 6 kW/6.6 kVA 05k = 5 kW/5.5 kVA 04k = 4 kW/4.4 kVA 03k = 3 kW/3.3 kVA
Photovoltaic string inverter, NEO/PVSA/APVS series											

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



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SOLAR ON-GRID INVERTERS
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These specifications may change without notice.

RV0.X3.7-06/25