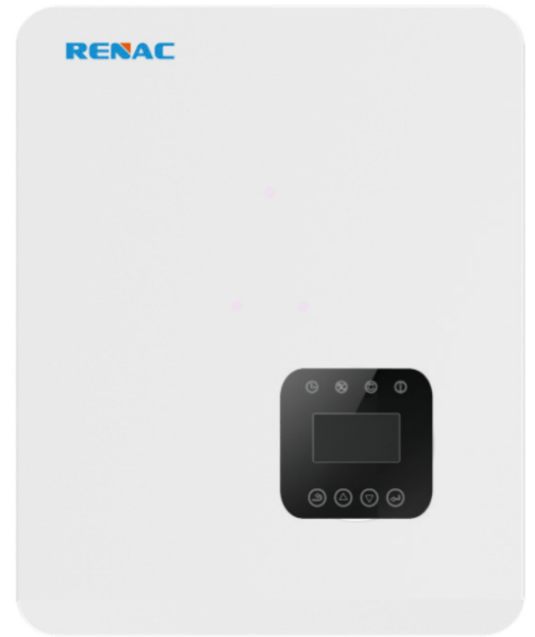


On-grid Inverters

R3 Pro Series

30kW / 33kW / 36kW / 40kW
Three Phase, 3 MPPT

RENAC Pro Series inverter is especially designed for residential and small commercial projects. With its compact design, the inverter is light and easy to install. The max efficiency is 98.8%. With an advanced designed ventilation system, the inverter is able to dissipate heat efficiently.



NATURAL COOLING,
MUTE OPERATION



50% DC INPUT
OVERSIZING



REMOTE MONITORING



IP66 RATED



SUPPORT LVRT AND
OVRT



BUILT-IN ZERO
EXPORT FUNCTION
(OPTIONAL)



R3 Pro Series

Model	R3-30K-G5	R3-33K-G5	R3-36K-G5	R3-40K-G5
DC Input Data				
Max. Recommended PV Power [Wp]	45000	49500	54000	60000
Max. DC Input Voltage [V]		1100		
MPPT Voltage Range [V]		200 ~ 1000		
Rated Input Voltage [V]		620		
Start-up Voltage [V]		250		
No. of MPP Trackers		3		
No. of Input Strings per Tracker	2 / 2 / 2	2 / 2 / 2	2 / 2 / 2	2 / 2 / 2
Max. DC Input Current [A]	30 / 30 / 30	30 / 30 / 30	30 / 30 / 30	30 / 30 / 30
Max. Short-circuit Current per MPPT [A]	40 / 40 / 40	40 / 40 / 40	40 / 40 / 40	40 / 40 / 40
DC Switch		Integrated		
AC Output Data				
Rated AC Power [W]	30000	33000	36000	40000
Max. Output Power [VA]	33000	36300	39600	44000
Max. AC Current [A]	47.8	52.6	57.3	63.8
Rated AC Voltage / Range [V]		3 / PE 380, 400; ±20%; 3 / N / PE 380, 400; ±20%		
Grid Frequency / Range [Hz]		50 / 60; ±5		
Adjustable Power Factor [cosφ]		0.8 leading ~ 0.8 lagging		
Output THDi (@Rated Output)		< 3 %		
Efficiency				
Max. Efficiency	98.80%	98.80%	98.80%	98.80%
Euro Efficiency	98.50%	98.50%	98.50%	98.50%
General Data				
Size (Width*Height*Depth) [mm]		380 x 483 x 227		
Weight [kg]		32.5		
User Interface		LCD		
Communication		RS485 (Standard), Wifi or GPRS		
Ambient Temperature Range [°C]		-25 ~ 60		
Relative Humidity		0 ~ 100%		
Operating Altitude [m]		≤ 4000		
Standby Self Consumption [W]		< 0.2		
Topology		Transformerless		
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Protection Grades		IP66		
Noise [dB]		< 35		
Warranty [years]		5 / 7 / 10		
Certifications & Standards				
Grid Regulation	PEA, MEA, EN 50549, CEI 0-16, CEI 0-21, IEC 61727, IEC 62116, IEC 60068, IEC 61683, G99			
Safety Regulation	IEC 62109-1, IEC 62109-2			
EMC	EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12, IEC 61000-4-16, IEC 61000-4-18, IEC 61000-4-29			
Protection				
	<ul style="list-style-type: none"> • DC Insulation Monitoring • Input Reverse Polarity Protection • Anti-island Protection • Residual Current Monitoring 	<ul style="list-style-type: none"> • Over-heat Protection • AC Overcurrent Protection • AC Short-circuit Protection • AC Overvoltage Protection 	<ul style="list-style-type: none"> • DC Surge Protection • AC Surge Protection 	