





% DC INPUT



EMOTE MONITORIN





BUILT-IN ZERO EXPORT FUNCTION (OPTIONAL)



On-grid Inverters

R3 LV Series

10KW / 12KW / 15KW / 20KW Three Phase, 2 MPPT

RENAC R3 LV Series three-phase inverter is designed with low voltage power input small commercial PV applications. Developed as a preferable choice for South American market demand on low-voltage inverters above 10kW, it is applicable to the different grid voltage ranges in the region, which mainly cover 208V, 220V and 240V. With the Pro-LV series inverter, the system configuration can be simplified instead of installation of an expensive transformer which adversely affects the system's conversion efficiency.

R3 LV Series

lodel	NAC10K-LV	NAC12K-LV	NAC15K-LV	NAC20K-LV
DC Input Data				
Max. Recommended PV Power [Wp]	16900	20800	22100	26000
Max.DC Input Voltage [V]	800			
MPPT voltage Range [V]	200 ~ 650			
Rated Input Voltage	380V			
Start-up Voltage [V]	250			
No. of MPP Trackers	2			
No. of Input Strings per Tracker	2/2	2/3	3/3	3/3
Max. DC Input Current [A]	26 / 26	26 / 30	30 /30	30 /30
DC Switch	Integrated			
AC Output Data				
	11000@208Vac	14000@208Vac	15000@208Vac	17000@208Vac
Rated AC Power [W]	12000@220Vac	15000@220Vac	16000@220Vac	18000@220Vac
	13000@240Vac	16000@240Vac	17000@240Vac	20000@240Vac
Max.output power [VA]	13000	16000	17000	20000
Max. AC Current [A]	32	40	43	48
Rated AC Voltage / Range [V]	150 ~ 300			
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	98.30%	98.40%	98.50%	98.50%
Euro Efficiency	98.00%	98.10%	98.20%	98.20%
MPPT Efficiency	99.90%	99.90%	99.90%	99.90%
General Data				
Size (Width*Height*Depth) [mm]	660 × 460 × 255			
Weight [KG]	38			
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	Natural Convection	Natural Convection	Natural Convection	Fan Cooling
Protection Grades		IF	265	
Noise [dB]	< 35			
Warranty [years]	5/7/10			
Protection	* DC Insulation Monitoring	* Over-heat Protection		* DC Surge Protection
	* Input Reverse Polarity Protection	* AC Overcurrent Protection * AC		* AC Surge Protection
	* Anti-island Protection	* AC Short-circuit Protection		
	* Residual Current Monitoring	*AC Overvoltage Protection		

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