



# R1 Kiddy Series ( SINGLE PHASE GRID ON )

NAC4K-DS/NAC5K-DS/NAC6K-DS/NAC7K-DS/NAC8K-DS

Model	NAC4K-DS	NAC5K-DS	NAC6K-DS	NAC7K-DS	NAC8K-DS
Rated AC power	4000 W	5000 W	6000 W	7000 W	8000 W
Maximum AC power	4400 VA	5500 VA	6600 VA	7700 VA	8000 VA
<b>Input</b>					
Maximum input power	4700 W	5800 W	7000 W	8100 W	8600 W
Maximum DC input voltage	600 V				
MPPT operating voltage range	100 ~ 550 V				
Startup voltage	120 V				
Min. DC Voltage	70 V				
Number of MPPT	2				
Maximum input current	10 A / 10 A	10 A / 10 A	10 A / 10 A	20 A / 10 A	20 A / 10 A
Number of DC Connection Sets per MPPT	1 / 1			2 / 1	
DC terminal type	MC4				
<b>Output</b>					
Rated output current	17.4 A	21.8 A	26.1 A	30.5 A	34.8 A
Maximum output current	19.2 A	24 A	28.7 A	33.5 A	34.8 A
Rated power grid voltage	230 V ; L + N + PE				
Rated power grid frequency	50 Hz / 60 Hz				
AC voltage Range	160 ~ 290 V(May vary as per corresponding country's grid standard)				
Frequency range	45-55HZ / 55-60HZ				
power factor	>0.99 , -0.8~ 0.8 controllable				
DC current injection	< 0.25%				
THDi	< 2%				
<b>Efficiency</b>					
Maximum efficiency	97.8%	97.8%	97.8%	98.1%	98.1%
European efficiency	97.2%	97.2%	97.2%	97.5%	97.5%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%	99.5%
<b>Protect</b>					
DC Switch	Optional				
Insulation monitoring	Integrated				
DC reverse-polarity protection	Integrated				
AC over current protection	Integrated				
Anti-Islanding protection	Integrated				
Residual current detection	Integrated				
Thermal protection	Integrated				
SPD	MOV UL: E327997/CSA: 246579/VDE: 40027827				
<b>General Parameters</b>					
Dimensions(W×H×D)	395 x 330 x 185 mm				
Weight	14 kg	15 kg	15 kg	16 kg	16 kg
Installation method	Wall mounted installation				
Display	LCD				
Communication	Wifi				
Ambient temperature range	-25 ℃ ~ 60 ℃				
Relative humidity	0~98% (no condensation)				
Operating altitude	≤4000m				
Standby Self Consumption	<0.2W				
Topology	transformerless				
Heat dissipation	Natural	Natural	Natural	Fan	Fan
Protection degree	IP65				
Noise emission	< 30 dB				
Warranty	Standard 5 years 10/15/20/25 years extension optional				
Certifications	IEC 62109-1, IEC 62109-2, EN 61000-2, EN 61000-3, A3/NZS 3100, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29, VDE-AR-N4105, VDE 0126-1-1+A1, CE, G83/2, UTE C15-712-1, MEA, PEA, AS4777, NB/T 32004-2013, IEC60068, IEC61683, IEC61727, IEC62116, EN50438				