

# N1PL-1M3/3.6/5/6K Single-phase Hybrid Inverter (LV)



## Smart with maximum savings



### Maximum savings on bills

Multiple charging and discharging time set



### High yields

Supports 1.5 high DC: AC ratio to connect more PV capacity




### High performance

14A high MPPT input current



### EPS

Back-up switch time < 10ms

Model	N1PL-1M3K	N1PL-1M3.6K	N1PL-1M5K	N1PL-1M6K
Picture				
<b>Input DC (PV side)</b>				
Recommended max. PV power	4.6 kW	4.6 kW	7 kW	7 kW
Max. input voltage	550 V			
Rated voltage	360 V			
Start-up voltage	125 V			
MPPT voltage range	125 - 500 V			
Max. input current	14 A / 14 A			
Max. short circuit current	17.5 A / 17.5 A			
MPPT number	2			
Max. input strings number per MPPT	1			
<b>Battery</b>				
Battery type	Li-ion / Lead-acid			
Battery voltage range	40 - 58 V			
Max. charging voltage	58 V			
Max. charge / discharge current	95 A / 62.5 A	95 A / 76.6 A	95 A / 104.2 A	95 A / 110 A
Communication	CAN / RS485 / WiFi / LAN / DRM			
<b>Output AC (Grid side)</b>				
Rated output power	3 kW	3.68 kW	5 kW	6 kW
Max. apparent output power	3kVA	3.68 kVA	5kVA	6kVA
Rated output voltage	1 / N / PE, 220 V / 230 V			
Rated frequency	50 Hz / 60 Hz			
Rated output current	13 A	16 A	21.7 A	26 A
Power factor	0.8 lagging - 0.8 leading			
THDi	< 2%			
<b>Input AC (Grid side)</b>				
Input voltage range	176 - 270V			
Max. AC current	13 A	16 A	21.7 A	26 A
Frequency range	45 - 55 Hz / 55 - 65 Hz			
<b>Output AC (EPS)</b>				
Rated output power	3 kW	3.68 kW	5 kW	6 kW
Max. apparent output power	3.3 kVA, 30 s	4.048 kVA, 30 s	5.5kVA, 30 s	6.6 kVA, 30 s
Back-up switch time	< 10 ms			
Rated grid voltage	1 / N / PE, 220 V / 230 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated output current	13 A	16 A	21.7 A	26 A
THDv (@linear load)	< 2 %			
<b>Efficiency</b>				
Max. efficiency	> 97.6 %			
EU efficiency	> 97.0 %			
<b>Protection</b>				
Over/under voltage protection	Yes			
DC isolation protection	Yes			
Monitoring ground fault protection	Yes			
Grid protection	Yes			
DC injection monitoring	Yes			
Back feed current monitoring	Yes			
Residual current detection	Yes			
Anti-islanding protection	Yes			
Over load protection	Yes			
Over heat protection	Yes			
Max. output fault current	55 A			
Max. output over current	58.7 A			
<b>General Data</b>				
Dimensions (W * H * D)	550 * 520 * 200 mm			
Weight	25 kg			
Topology	Non-isolated			
Operating ambient temperature range	-25°C ~ +60°C			
Protection rating	IP65			
Cooling concept	Natural convection			
Max. operation altitude	2000 m			
Grid connection standard	G98/G99, CEI 0-21			
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 62477-1, EN 61000-6-1/-3			
<b>Features</b>				
Display	LCD			
Communication	RS485, CAN, DRM; Optional: Wi-Fi, GPRS			

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