



## ENP-GS(1-3)K-S6

### enPrimo Residential Series Inverters

#### Features:

- Max. efficiency 97.1%
- String current up to 16A
- Super high frequency switching technology
- Wide voltage range and low startup voltage
- Precise MPPT algorithm
- Integrated Export Power Manager (EPM)
- AFCI protection, proactively reduces fire risk
- Compact and lightweight
- Friendly and adaptable connection to the grid

#### Models:

ENP-GS1K-S6

ENP-GS2K-S6

ENP-GS3K-S6



Models	1K	2K	3K
<b>Input DC</b>			
Recommended max. PV power	1.5 kW	3 kW	4.5 kW
Max. input voltage		550V	
Rated voltage	200 V		330 V
Start-up voltage	50V		80 V
MPPT voltage range	10-500V		70-500V
Max. input current		16A	
Max. short circuit current		20 A	
MPPT number/Max. input strings number		1/1	
<b>Output AC</b>			
Rated output power	1 kW	2 kW	3 kW
Max. apparent output power	1.1 kVA	2.2 kVA	3.3 kVA
Max. output power	1.1 kW	2.2 kW	3.3 kW
Rated grid voltage		1/N/PE, 220 V / 230 V	
Rated grid frequency		50 Hz	
Rated grid output current	4.5 A / 4.3 A	9.1 A / 8.7 A	13.6 A / 13 A
Max. output current	5.8A	10.0 A	15.0 A
Power factor		+0.99 (0.8 leading - 0.8 lagging)	
THDi DC		<3%	
Injection current		<0.5% In	
<b>Efficiency</b>			
Max. efficiency	96.6%	97.1%	97.1%
EU efficiency	95.3%	96.4%	96.4%
<b>Protection</b>			
DC reverse-polarity protection		Yes	
Short circuit protection		Yes	
Insulation resistance monitoring		Yes	
Residual current detection		Yes	
Output over current protection		Yes	
Surge protection		T3 (DC), T3 (AC)	
Grid monitoring		Yes	
Anti-islanding protection		Yes	
Temperature protection		Yes	
Integrated AFCI (DC arc-fault circuit protection)		Yes**	
Integrated DC switch		4a	
<b>General Data</b>			
Dimensions (W*H*D)		330*372*160 mm	
Weight	7.3kg		7.4 kg
Topology		Transformerless	
Self-consumption (night)		<1 W	
Operating ambient temperature range		-25 - +40° C	
Relative humidity		0-100%	
Ingress protection		IP66	
Noise emission (typical)		<20 dB(A)	
Cooling concept		Natural convection	
Max. operation altitude		4000 m	
Grid connection standard		IS 16169: 2019/ IEC 62116: 2014 AND IS 17980: 2022/ IEC 62891: 2020	
Safety		IS 16221 (PART 2): 2015/ IEC 62109-2: 2011	
<b>Features</b>			
DC connection		MC4 connector	
AC connection		Quick connection plug	
Display		LCD	
Communication		RS485, Optional: ENP-WIFI-S5, ENP-GPRS-S3	

\*\* Certification required.