



## Features 3-4 MPPTs and double current for high performance



### Safe

LFP Cell, double fire suppression system design




### Simple


Pre-installed in factory for easy installation on site  
Integrated BMS/EMS, suitable for different scenarios  
Automatically adjusts control strategy according to loads



### High Yields

Save cost, expanding depending on demand, integrated 3 MPPTs, higher tracking accuracy for each string

Model	NLO-1K50K-PCS
Picture	
<b>PV side</b>	
Max. input voltage	1000 V
MPPT voltage range	350 - 800 V
Max. input current per MPPT	36 A
MPPT number	3
Max. input strings number per MPPT	2
<b>Battery side</b>	
Max input voltage	750 V
Min input voltage	350 V
DC voltage at nominal operation	500 - 750 V
Max DC current	55 A * 2
Max DC input power	55 kW
NO of DC input	2
<b>AC side (on grid)</b>	
Nominal AC output power	50 kW
Max AC output power	55 kVa
Max AC current	80 A
Rated AC voltage	400 V
AC voltage range	340 - 440 V
Rated grid frequency	50 / 60 Hz ± 5Hz
THDv (@linear load)	< 3% (100% Load)
Ajustable PF range	1 leading - 0.8 lagging
<b>AC side (off grid)</b>	
Nominal AC voltage	230 / 400 V ± 3 %; 3 / N / PE
THDv	< 3% (Linear Load)
Nominal Grid frequency / Frequency range	50 / 60 Hz
Max AC output power	55 kVa
<b>Efficiency</b>	
Max. efficiency	97.50%
<b>Protection</b>	
Reverse connection protection	Y
DC switch	Y
Over temperature protection	Y
Grid monitoring / earth fault detection	Y
Insulation monitoring	Y
DC / AC surge protection	Y
<b>General Data</b>	
Dimensions (W * H * D)	650 * 715 * 325 mm
Weight	75 kg
Topology	Transformerless
Protection rating	IP65
Operating temperature range	-25 ~ + 60°C (> 45 derating)
Operation Humidity	0 ~ 100 % (No Condensation)
Cooling concept	Intelligent air cooling
Max. operation altitude	3000 m
Communication	RS485 / CAN

Model	NLO-1K100K
Picture	
Battery type	LFP
Battery module capacity	5.12 kWh
Number of modules	10 * 2
Total battery capacity	102.4 kWh
Nominal voltage	512 V
Operating voltage range	448 V ~ 576 V
Charge / Discharge rate	Max. 0.5 C
DoD	100%
Dimensions(W * D * H)	1100 * 1080 * 2380 mm
Weight	< 1.5 T
Installation site	Outdoor
Protection rating	IP54
Anti corrosion level	C4
Operation humidity	0% ~ 95% (No condensing)
Operation temperature	-30°C ~ +50°C
Max. operation altitude	4000m (> 3000 m derating)
Communication port	Ethernet, CAN
Communication protocol	CAN, MODBUS TCP/IP
Cooling method	Air conditioner
Standards	IEC62619-2017; UN38.3; IEC 61000-6-2/4

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