

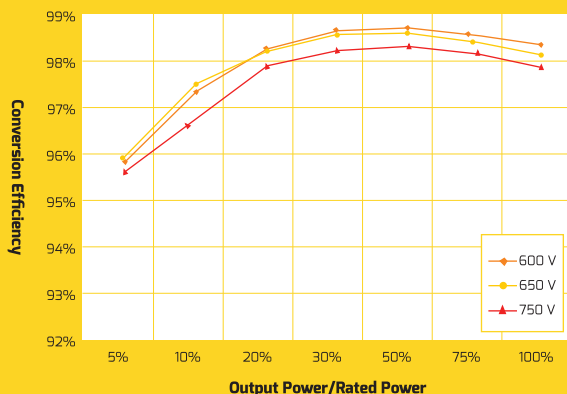
Central Inverters

Our central inverters provide high conversion efficiency, precision control, reactive power compensation and harmonic suppression function. They come with a rapid and reliable overcurrent/overvoltage/temperature protection function. Our central inverter ensures a high energy yield and a great return on your investment. It is also available in a compact station solution, specifically designed to meet the requirements of the Chinese market.

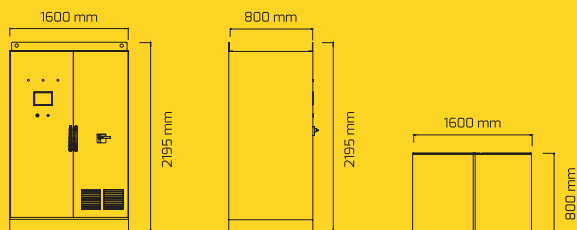
NSG-500K3TL



Conversion efficiency



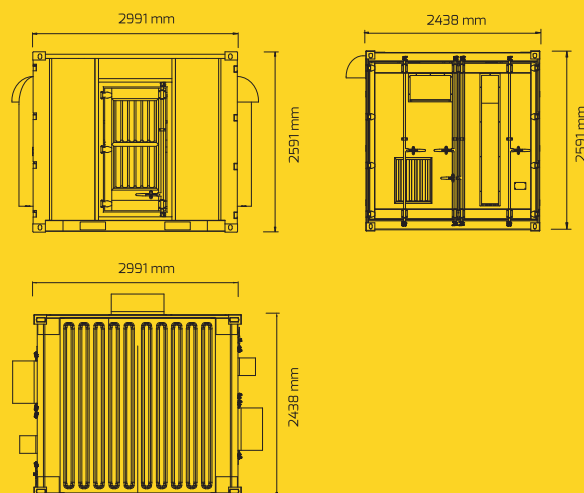
Dimensions



NSG-1000NG



Dimensions



Central Inverters

Technical data	NSG-500K3TL	NSG-1000NG
DC input data		
Max. DC input ($\cos\phi=1$) [KW]	560	1120
Max. DC voltage [V]	1000	
MPP voltage range [V]	500-850	
Max. DC current [A]	1120	2240
Number of MPP trackers	1	1+1
Number of DC inputs	8	16
Output data		
Rated power [KW]	500	1000
Max. AC output power [KVA]	550	1100
Operating grid voltage $\pm 10\%$ [V]	315	
Operating range, grid frequency [Hz]	50	
Max. AC current [A]	1008	2016
Power factor ($\cos\phi$)	0.9 inductive ... 0.9 capacitive	
Harmonic distortion (THD) at rated output	< 3%	
Power consumption at night [W]	< 100	< 200
Efficiency		
Max. efficiency PAC, max (η)	98.7%	
European weighted efficiency	98.5%	
Features		
Power switch AC side	OT+FUSE	
Power switch DC side	Switch	
Monitored surge voltage protectors DC	TYPE II	
Monitored surge voltage protectors AC	TYPE II	
Monitored surge voltage protectors for auxiliary supply	TYPE II	
DC overvoltage protection, DC overcurrent protection	Yes	
AC overvoltage protection, AC overcurrent protection	Yes	
Fan monitoring	Yes	
Ground fault device/interrupt (GFDI)	Optional	
DC insulation monitoring	Yes	
General data		
Dimensions (WxHxD) [mm]	1600 x 2195 x 800	2991 x 2591 x 2438
Weight [kg]	1650	6000
Installation environment	Indoor	Outdoor
Operating temperature range	-25°C ... +55°C (derating in case of temperatures above 45°C)	
Relative humidity	0% to 95%, no condensation	
Site altitude	4000 m	
IP protection type	IP21	IP54
Insulation type	Transformerless	
Cooling concept	Fan cooling	
Human machine interface (HMI)	LCD touchscreen	
Communication interface	RS485/RS232	
Certificates and approvals	CNCA/CTS 0004-2009A, CNCA/CTS 0006-2010, GB/T 19964-2012	

As of July, 2015 / Technical data is subject to revisions.