



NSG-500K3TL-20

Central Inverter

NSG-500K3TL-20 Features ▶

- Function of low voltage ride through
- Maximum efficiency of 98.7%
- Wide range of MPPT voltage
- Core technologies: under actuated feedback compensation, short circuit protection, high-efficiency integrated heat dissipation solution and layout optimization.
- With 32 bit DSP chip, realize the space vector calculation, has the reactive power compensation ability
- With DSP+CPLD framework, fast computational speed
- No derating below 3000m
- Perfect protection function
- Certificate: CQC
- Qualified ZVRT function (State Grid requirements met), safety and reliability guaranteed.

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Technical Data

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DC input data

Max. PV-generator power [KW]	560
Max. DC voltage [V]	450-850
MPP voltage range [V]	1000
Max. DC current [A]	1200
Number of MPP trackers	1
Number of DC inputs	12

Output data

Rated power [KW]	500
Max. AC output power [KVA]	550
Operating grid voltage $\pm 10\%$ [V]	315
Operating range, grid frequency [Hz]	50/60
Max. AC current [A]	1100
Power factor (cos ϕ)	0.9 inductive...0.9 capacitive
Harmonic distortion (THD) at rated output	<3%
Power consumption at night [W]	<200

Efficiency

Max. efficiency PAC, max (η)	>98.7%
Euro efficiency	>98.5%

Features

Power switch AC side	OT+FUZE
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,over voltage protection	Yes
Ground fault monitoring	Yes
DC Insulation monitoring	Yes

General data

Dimensions (WxHxD) [mm]	1600*2235*800
Weight [kg]	1500
Installation environment	Indoor
Operating temperature range	-25° C ...+55° C
Relative humidity	0% to 95%, no condensation
Site altitude	Up to 3000m without derating
IP protection type	IP21
Isolation type	Transformerless
Cooling concept	Fan cooling
LCD display	HMI touchscreen
Communication interface	RS485/RS232

Safety requirement	CNCA/CTS 0004-2009A, CNCA/CTS 0006-2010, IEC 62109-1, IEC 62109-2, IEC 61000-6-2, IEC 61000-6-4
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