



SINGLE PHASE HYBRID INVERTER

PSE-DUAL-4KW

NEXA SERIES



150% overload output
(1.3times $\leq$ 60s)



Support dry contact
starting generator



Normal operation of
only-connection PV panels



UPS switch
over time $< 10\text{ms}$



Up to 2 times input



Dual back up output

Max
18

The maximum current of
a single string module is 18A/18A



Supports a maximum of
16 single-phase units

NEXA Series



Support APP Online
Operation & Maintenance



Battery Side High Frequency
Transformer Isolation,
Safe And Reliable



Support Battery
Charging/Discharging
According To The Time Setting



PV Input
Reverse
Polarity Protection

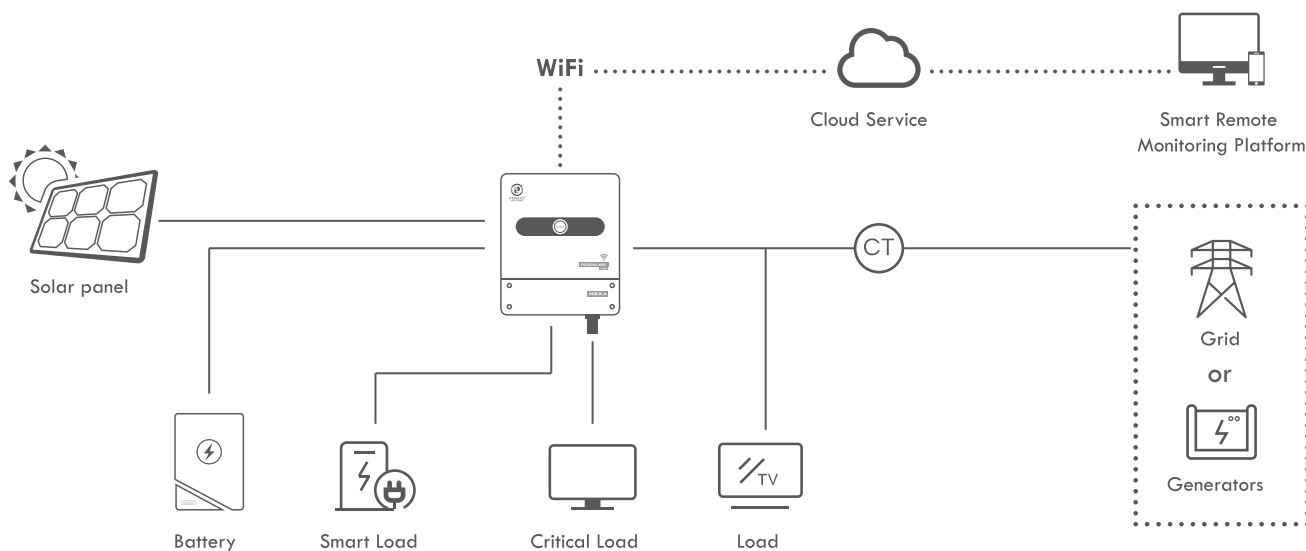


Output Over
Current/Voltage
Protection



The Battery Charge
and Discharge Current
Up to 100A

Solution Diagram



Model

PSE-DUAL-4KW

PV INPUT

Max. DC input power	[W]	6000
Max. DC input voltage	[V]	500
MPPT voltage range	[V]	150-450
Starting voltage	[V]	125
Max. input current	[A]	18/18
Max. short circuit current	[A]	22.5/22.5
Number of MPP trackers		2
Strings per MPP tracker		1

AC OUTPUT (GRID)

Rated output power	[W]	4000
Max. output apparent power	[VA]	4400
Rated output voltage	[V]	220/230/240
Rated output frequency	[Hz]	50/60
Max. output current	[A]	20
THDi		< 3%
Output power factor		~1 (-0.8 leading~+0.8 lagging)

AC OUTPUT (TWO BACKUP)

Full Max. output power	[W]	4000
Rated output voltage	[V]	220/230
Rated output frequency	[Hz]	50/60(±0.2%)
Back up1 Max. output power	[W]	4000
Back up2 Max. output power	[W]	4000
Output Power Factor(off grid)		1~(0.8 leading to 0.8 lagging)
Output Current Harmonic Distortion		THD<3%(Nonlinear load); THD<1.5%(Linear load)
Max. output current	[A]	18

BATTERY PARAMETERS

Battery Type		Lithium or lead acid battery
Rated battery voltage	[V]	48
Voltage range	[V]	44-57
Max. charge/discharge current	[A]	100
BMS communication		CAN/RS485

EFFICIENCY

Max. efficiency(PV)		97.6%
Max. efficiency(cell)		94.5%
European efficiency		97%

PROTECTION

PV input reverse polarity protection		Yes
PV insulation resistance detection		Yes
Residual current detection		Yes
Output over current protection		Yes
Output short circuit protection		Yes
Output over voltage protection		Yes

OTHERS

Operating temperature range	[°C]	-25~60
Storage temperature range	[°C]	-30~65
Humidity range		0~95%
Operating altitude	[m]	≤4000
Communication		RS485/CAN/WiFi/Ethernet/4G
Noise (db)		<25
Size (W×H×D)	[mm]	424*555*197
Weight	[kg]	19

STANDARD

EN 62109-1/2, IEC 62109-1/2, EMC 61000, EN50549, VDE 4105/0124, NRS 097-2-1, IEC61727/62116/61683

