PRIMAX®
SOLAR ENERGY

THREE PHASE HYBRID INVERTER

PSE-DUAL-12KW

NEXA SERIES

110% overload output
(1.3times ≤ 60s)

UPS switch
over time< 10ms

Max
18
The maximum current of
a single string module is 10A

Support dry contact
starting generator

Up to 2 times input

Supports a maximum of
12 three-phase units

Normal operation of
olny-connection PV panels

2
Dual back up output

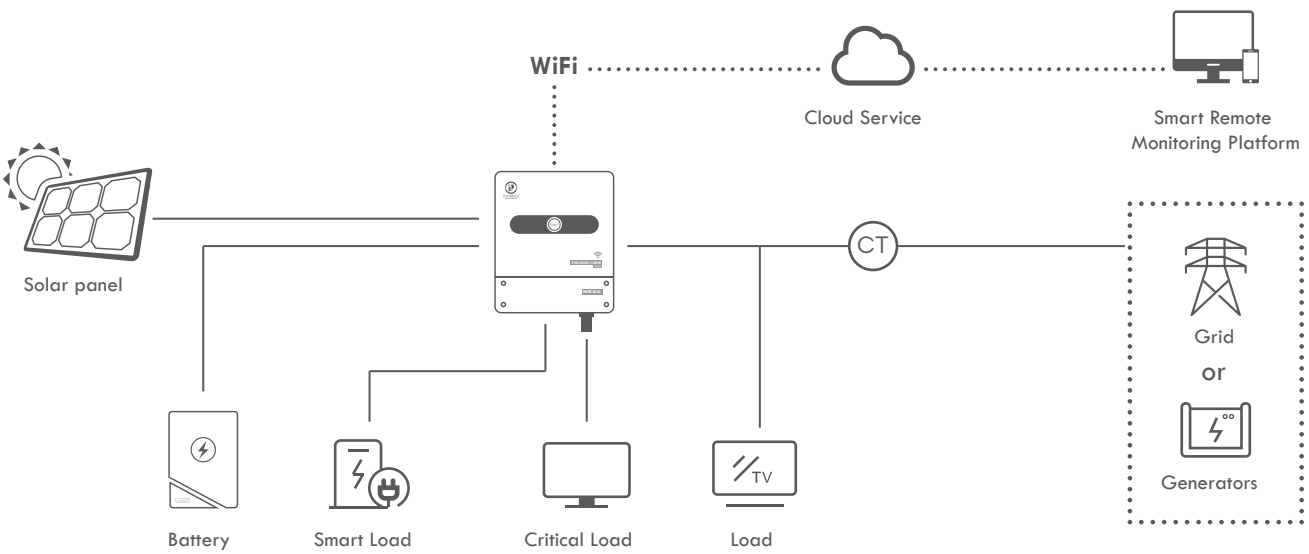
Support 110% three-phase
unbalanced output

NEXA Series

PRIMAX®
SOLAR ENERGY

- Support APP Online Operation &Maintenance
- Battery Side High Frenquency 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 120A

Solution Diagram



PSE-DUAL-12KW

PV INPUT		
Max. DC input power	[W]	18000
Max. DC input voltage	[V]	1000
MPPT operating voltage range	[V]	150-800
Starting voltage	[V]	150
Max. input current	[A]	36/18
Number of MPP trackers		2
Strings per MPP tracker		2/1
AC OUTPUT (GRID)		
Rated output power	[W]	12000
Max. output apparent power	[VA]	13200
Rated output voltage	[V]	400
Rated output frequency	[Hz]	50/60
Max. output current	[A]	20.0
Output power factor		-0.8 leading~+0.8 lagging
AC OUTPUT (TWO BACKUP)		
Full Max. output power	[W]	12000
Rated output voltage	[V]	400(±2%)
Rated output frequency	[Hz]	50/60（±0.2%）
Backup1 Max. output power	[W]	12000
Backup2 Max. output power	[W]	12000
Output Power Factor(off grid)		-0.8 leading~+0.8 lagging
Output Current Harmonic Distortion		THD<3%(Nonlinear load); THD<1.5%(Linear load)
Max. output current	[A]	20
BATTERY PARAMETERS		
Battery type		Lithium or lead acid battery
Rated battery voltage	[V]	48
Voltage range	[V]	44-60
Max. charge/discharge current	[A]	250
EFFICIENCY		
Max. efficiency (PV)		98%
Max. efficiency (Battery)		94.5%
European efficiency		97.5%
PROTECTION		
DC reverse-polarity protection		Yes
Short circuit protection		Yes
Output over current protection		Yes
Output over voltage protection		Yes
Insulation resistance monitoring		Yes
Residual current detection		Yes
Surge protection		Yes
Grid monitoring		Yes
Islanding protection		Yes
Temperature protection		Yes
Integrated DC switch		Yes
OTHERS		
Operating temperature range	[℃]	-25~60
Storage temperature range	[℃]	-30~65
Humidity range		0~95%
Operating altitude	[m]	≤4000
Topology		HF isolation (Battery side)
Cooling method		Natural
Noise	[db]	＜25
Weight	[kg]	35
Size (W×H×D)	[mm]	475×683×256
STANDARD		
		EN62109-1/2,IEC62109-1/2 ,EMC61000,EN50549, IEC61727,IEC62116,IEC61683,VDE 4105/0124