

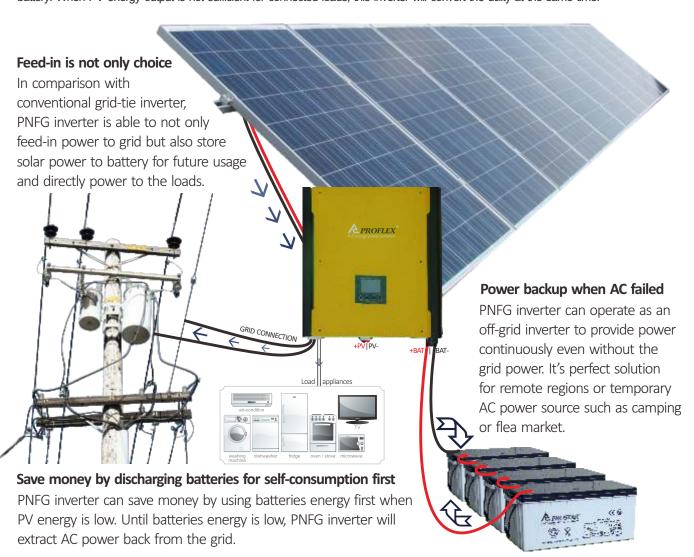
Solar Hybrid (On/Off Grid) Inverter PNFG Series

Grid tie + Off-grid = Hybrid

- » LCD display panel
- » Pure sinewave output
- » Charging system stable
- » Microprocessor control
- » Multiple communication
- » Built-in MPPT solar charger
- » Green substitution for generators
- » User-adjustable battery charging current up to 25A
- » Multiple operations: Grid tie, Off grid, On/Off grid mixed

This hybrid PV inverter can provide power to connected loads by utilizing PV power, utility power and battery power. When PV energy output is good, it will power connected loads from solar electric (photovoltaic or PV) power, feed power back to grid (utility), and charge battery. When PV energy output is not sufficient for connected loads, this inverter will convert the utility at the same time.

Grid tie + Off-grid = Hybrid





Solar Hybrid (On/Off Grid) Inverter PNFG Series

MODEL	PNFG-2KW	PNFG-3KW
RATED POWER	2000W	3000W
M : DCD	GRID-TIE OPERATION PV INPUT(DC)	220014
Maximum DC Power	2250W	3200W
Nominal DC Voltage / Maximum DC Voltage	300V DC / 350V DC	360V DC / 500V DC
Start-up Voltage / Initial Feeding Voltage	80V DC / 120V DC 150V DC - 320V DC	116V DC / 150V DC 250V DC - 450V DC
MPP Voltage Range No. of MPP Trackers / Max. Input Current	1/1 x 15A	1 / 1 x 13A
	· · · · · · · · · · · · · · · · · · ·	1/1 X 15A
	GRID-TIE OPERATION GRID OUTPUT (AC)	222/222/222/2
Nominal Output Voltage	101/110/120/127V AC	208/220/230/240V AC
Output Voltage Range	88 - 127V AC*	184 - 264.5V AC*
Nominal Output Current	18A	13.1A*
Power Factor	> 0	.99
	GRID-TIE OPERATION EFFICIENCY	
Maximum Conversion Efficiency (DC to AC)	95%	96%
European Efficiency @ Vnominal	94%	95%
European Emelency & Vironima		3370
AC Start up Voltago/Auto Bostart Voltago	OFF GRID OPERATION AC INPUT	120 1407 46 / 1807 46
AC Start-up Voltage/Auto Restart Voltage Acceptable Input Voltage Range	60 - 70V AC / 85V AC 85 - 130V AC*	120 - 140V AC / 180V AC 170 - 280V AC
No. of MPP Trackers / Max. Input Current	85 - 130V AC* 30A	170 - 280V AC 25A
NO. OTWITE TRACKETS / WAX. INPUT CUTTENT		ZJA
	OFF GRID OPERATION PV INPUT (DC)	
Maximum DC Voltage	350V DC	500V DC
MPP Voltage Range	150V DC - 320V DC	250V DC - 450V DC
Maximum Input Current	1 / 1 x 15A	1/1×13A
	RID OPERATION BATTERY MODE OUTPUT	
Nominal Output Voltage	101/110/120/127V AC	208/220/230/240V AC
Output Waveform	Pure Sir	
Efficiency (DC to AC)	90%	93%
	HYBRID OPERATION PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	300V DC / 350V DC	360V DC / 500V DC
Start-up Voltage / Initial Feeding Voltage	80V / 120V DC	116V / 150V DC
MPP Voltage Range	150V DC - 320V DC	250V DC - 450V DC
Maximum Input Current	1/1×15A	1/1×13A
	HYBRID OPERATION GRID OUTPUT (AC)	
Nominal Output Voltage	101/110/120/127V AC	208/220/230/240V AC
Output Voltage Range	88 - 127V AC	184 - 264.5V AC
Nominal Output Current	18A	13.1A*
	HYBRID OPERATION AC INPUT	
AC Start-up Voltage/Auto Restart Voltage	60 - 70V AC / 85V AC	120 - 140V AC / 180V AC
Accetable Input Voltage Range	80 - 130V AC*	170 - 280V AC
Maximum AC Input Current	30A	25A
нүвг	RID OPERATION BATTERY MODE OUTPUT (A	AC)
Nominal Output Voltage	101/110/120/127V AC	208/220/230/240V AC
Efficiency (DC to AC)	90%	93%
	HYBRID OPERATION BATTERY & CHARGER	
Nominal DC Voltage	48V	DC
Maximum Charging Current	25	
	ERAL PHYSICAL / INTERFACE / ENVIRONME	NT
	420 x 415 x 170	
	420 x 41	13 X 1 / U
Dimensions, D x W x H (mm)		
Dimensions, D x W x H (mm) Net Weight (kgs)	15	.5
Dimensions, D x W x H (mm) Net Weight (kgs) Commnication Port	15 RS-232	.5 2 / USB
Dimensions, D x W x H (mm) Net Weight (kgs) Commnication Port Intelligent Slot	15 RS-232 Optional SNMP, Modbus,	.5 2 / USB and AS-400 cards available
Dimensions, D x W x H (mm) Net Weight (kgs) Commnication Port	15 RS-232	.5 2 / USB and AS-400 cards available o condensing)

 $^{^{*}}$ AC voltage range may vary depending on different AC voltage

^{**} Power derating 1% every 100m when altitude is over 1000m.