

# GREEN LIGHT

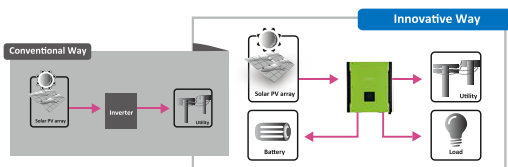
## MPPT SERIES HYBRID GE (SINGLE PHASE)



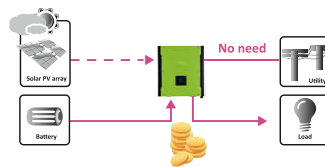
### CORE FEATURES



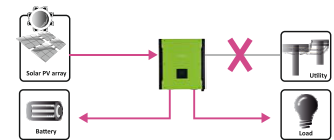
Introducing a flexible and intelligent hybrid solution, Green light Inverter that intelligently utilizes solar power, AC utility, and battery power to supply a constant flow of power. Specially meant for domestic or household use Green Light is a simplistically smart solar power storage system that stores and holds energy into a battery for anytime utilization as per the requirements. Priority for power source is programmable through smart software. During unexpected power failures and faults at any given point of time, It would automatically consume the reserved power from the battery thereby eliminating the dependence on the electricity significantly.



**FEED-IN POWER TO THE GRID AND ALSO STORE SOLAR POWER TO THE BATTERY**



**SAVE MONEY BY DISCHARGING BATTERY FOR SELF-CONSUMPTION FIRST**



**POWER BACKUP WHEN AC POWER FAILED**

- Self-consumption and feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operations modes: Grid tie, Off grid, and grid-tie with backup

- Built-in Timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real time status display and control
- Custom-made firmware by ODM contract
- Parallel operation up to 6 units for 5KW / 10KW and 15KW



MODEL	2KW	3KW	5KW	10KW	15KW
<b>PHASE</b>	1-phase in / 1-phase out			3-phase in / 3-phase out	
<b>MAXIMUM PV INPUT POWER</b>	2250 W	4500 W	10000 W	14850 W	22500 W
<b>RATED OUTPUT POWER</b>	2000 W	3000 W	5000 W	10000 W	15000 W
<b>MAXIMUM CHARGING POWER</b>	1200 W	2880W	4800 W	9600 W	15000 W
<b>GRID-TIE OPERATION</b>					
<b>PV INPUT (DC)</b>					
Nominal DC Voltage / Maximum DC Voltage	300 VDC / 350 VDC	360 VDC / 500 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	80 VDC / 120 VDC	116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC	320 VDC / 350 VDC
MPP Voltage Range	120 VDC ~ 320 VDC	250 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 15 A	1 / 1 x 18 A	2 / 2 x 10 A	2 / 2 x 18.6A	2 / A: 37.65A; B: 18.6A
<b>GRID OUTPUT (AC)</b>					
Nominal Output Voltage	101/110/120/127 VAC	208/220/230/240 VAC		230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range	88 - 127 VAC*	184 - 265 VAC*		184 - 265VAC* per phase	184 - 264.5VAC per phase
Nominal Output Current	18 A	13 A	21 A	14.5A per phase	21.7A per phase
Power Factor	> 0.99				
<b>EFFICIENCY</b>					
Maximum Conversion Efficiency (DC/AC)	95%		96%		
European Efficiency@ Vnominal	94%		95%		
<b>OFF-GRID OPERATION</b>					
<b>AC INPUT</b>					
AC Start-up Voltage/Auto Restart Voltage	60 - 70 VAC / 85 VAC	120 - 140 VAC / 180 VAC		120 - 140 VAC per phase / 180 VAC per phase	
Acceptable Input Voltage Range	80 - 130 VAC	170 - 280 VAC		170 - 280 VAC per phase	
Maximum AC Input Current	30 A		40 A		
<b>PV INPUT (DC)</b>					
Maximum DC Voltage	350 VDC	500 VDC	900 VDC	900 VDC	900 VDC
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC	350 VDC ~ 850 VDC
Number of MPP Trackers/Maximum Input Current	1 / 1 x 15 A	1 / 1 x 18 A	2 / 2 x 10A	2 / 2 x 18.6A	2 / A: 37.65A; B: 18.6A
<b>BATTERY MODE OUTPUT (AC)</b>					
Nominal Output Voltage	101/110/120/127 VAC	208/220/230/240 VAC	202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure Sinewave				
Efficiency (DC to AC)	90%	93%		91%	91%
<b>HYBRID OPERATION</b>					
<b>PV INPUT (DC)</b>					
Nominal DC Voltage / Maximum DC Voltage	300 VDC / 350 VDC	360 VDC / 500 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	80 VDC / 120 VDC	116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC	320 VDC / 350 VDC
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC	350 VDC ~ 850 VDC
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Output Voltage Range	88-127 VAC*	184 - 265 VAC*		184 - 265 VAC* per phase	184 - 264.5 VAC per phase
Nominal Output Current	18 A	13 A	21 A	14.5 A per phase	21.7A per phase
<b>AC INPUT</b>					
AC Start-up Voltage / Auto Restart Voltage	60 - 70 VAC / 85 VAC	120 - 140 VAC / 180 VAC		120 - 140 VAC per phase / 180 VAC per phase	120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	80 - 130 VAC	170 - 280 VAC		170 - 280 VAC per phase	170 - 280 VAC per phase
Maximum AC Input Current	30 A		40 A		
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Nominal Output Voltage	101/110/120/127 VAC	208/220/230/240 VAC	202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	90%	93%		91%	91%
<b>BATTERY &amp; CHARGER</b>					
Nominal DC Voltage	48 VDC				
Maximum Charging Current	Default 25A, 5A - 25A (Adjustable)	Default 25 A, 5A - 60A (Adjustable)	Default 60A, 5A - 100A (Adjustable)	Default 60A, 10A - 200A (Adjustable)	Default 60A, 5A - 300A (Adjustable)
<b>GENERAL</b>					
<b>PHYSICAL</b>					
Dimension, D x W x H (mm)	107 x 438 x 480		204.2 x 460 x 600	167.2 x 500 x 622	219 x 650 x 820
Net Weight (kgs)	15.5		29	40	62
<b>INTERFACE</b>					
Communication Port	RS-232/USB		RS-232/USB		RS-232, USB and Dry contact
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available				
<b>ENVIRONMENT</b>					
Humidity	0 ~ 90% RH (Non-Condensing)				
Operating Temperature	0 to 40°C		-10 to 55°C		
Altitude	0 ~ 1000 m**				

\*These figures may vary depending on different AC voltage and country requirements. \*\*Power derating 1% every 100 m when altitude is over 1000m.  
\*Due to continuous improvement technical specifications & product image can change without prior notice.