iNVERGY



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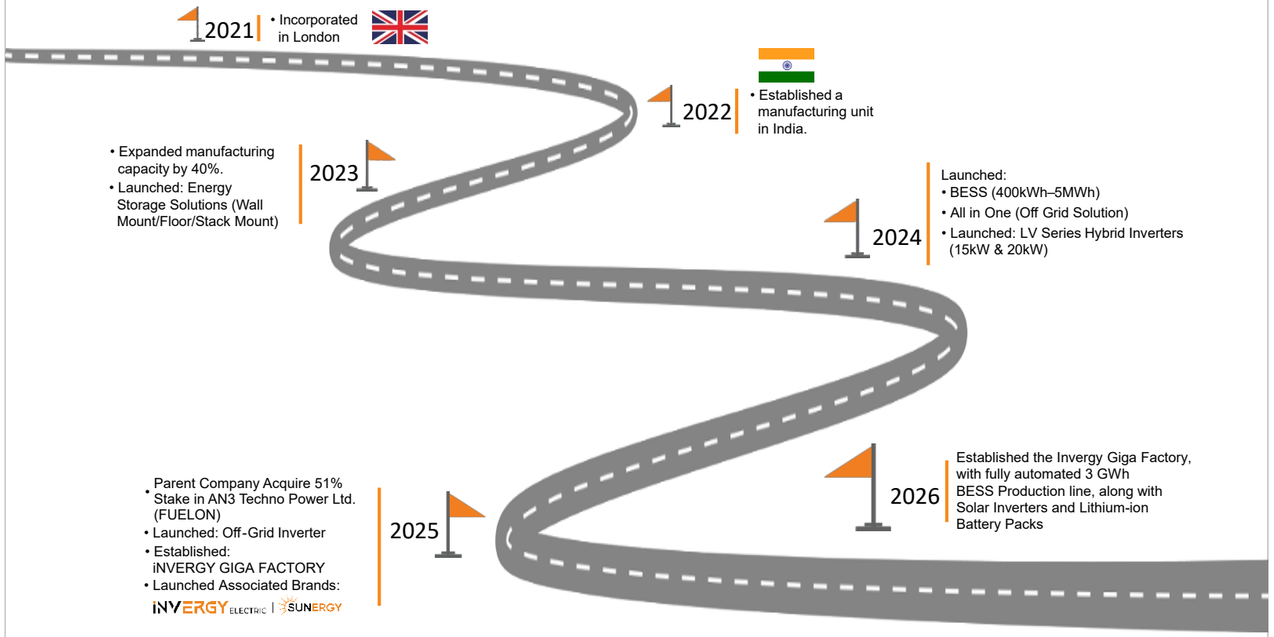


THE NEW STANDARD IN SOLAR ENERGY

Discover INVERGY extensive range of
futuristic solar inverters and storage solutions



Journey So Far



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INVERGY - Powering a sustainable future

About Us

INVERGY is where innovation meets energy. Founded in 2021, we have quickly emerged as a "technology-first" leader in solar power conversion and storage, built on reliability, efficiency, and forward-thinking engineering.

Backed by the legacy of GP Eco Solutions (NSE Listed Co.), INVERGY India Pvt. Ltd. is powering a sustainable future through cutting-edge clean energy technology.

What We Make

Solar Inverters: On Grid, Off Grid, and Hybrid

LiFePO4 Batteries

Battery Energy Storage Systems (BESS)

Engineered for residential, commercial, and industrial applications.

What We Do

Open Access Solar Solutions

Rooftop Solar Systems

Solar Power Plants

C&I (Commercial & Industrial) Energy Storage

We help businesses and industries achieve energy independence and significantly reduce power costs.

Our Belief: Advanced technology should feel effortless. INVERGY bridges the gap between complex power conversion and the end-user's need for seamless, uninterrupted living.

Our Promise: Choosing INVERGY isn't just a purchase, it's an investment in resilience. Whether it's keeping a home bright during a storm or ensuring a factory never skips a beat, we are the silent, powerful heartbeat behind the scenes.

Energy, Reinvented.





The "INVERGY Promise" Support & Sustainability

A brand is only as strong as its relationship with its users.

INVERGY distinguishes itself through:

Hyper-Responsive Service:

A dedicated network of experts ensuring zero downtime.

Sustainability Leadership:

Actively pushing the transition toward a solar-powered planet.

Buying an INVERGY product is the start of a partnership. Our Nationwide Support Network ensures that expert help is always a call away, backed by one of the most comprehensive warranty programs in the industry.

Made In India

INVERGY's growth is deeply aligned with India's national goals, such as the PM Surya Ghar: Muft Bijli Yojana.

Manufacturing Prowess:
The company is significantly expanding its domestic footprint, with a massive manufacturing facility in Dasna (Uttar Pradesh) poised to produce 50,000 units annually.

Network & Service:
Unlike international brands that may struggle with local service, INVERGY has built a robust Pan-India support network, supporting warranties of up to 10 years and a projected product lifespan of 25 years

The Aesthetic

Form Meets Function:

Embracing a "less is more" philosophy, INVERGY prioritizes a sleek, minimalist aesthetic rooted in the belief that a power solution should be defined by its seamless performance rather than visual clutter.

By combining a compact physical footprint with an intuitive LED interface, these units are designed for versatility—blending effortlessly into the sophisticated atmosphere of a modern smart home while maintaining the rugged functionality required for a high-tech server room.

INVERGY Giga Factory

Factory at a glance

- **Location:** Dasna, Ghaziabad District, Uttar Pradesh
- **Built-up area:** 4.5 Acres.
- **Commissioning:** Phase 1 operational; Phase 2 targeted September 30, 2026
- **Current capacity:** 3 GWh (BESS)
- **Target capacity (Fy28):** 5 GWh
- **Products Manufactured:** BESS modules & packs, solar inverters (on-grid, hybrid, off-grid), PV string inverters, smart LT/HT panels
- **Location advantage:** Positioned within the Delhi NCR–Haryana–Uttar Pradesh distribution corridor



The Innovation Edge

Setting a new benchmark
INVERGY doesn't just follow trends; it anticipates them. By investing heavily in R&D, the brand ensures its hardware is "future-proof."

Hybrid Intelligence
Seamlessly blending grid power, battery storage, and renewable sources.

Pure Sine Wave Delivery
Ensuring that even the most sensitive medical or IT equipment runs without a flicker.

Eco-Centric Engineering
Reducing the carbon footprint through optimized thermal management and recyclable components.



The Core Philosophy "Smart Power, Simple Life"

At its heart, INVERGY is built on the belief that advanced technology should feel effortless. The brand bridges the gap between complex power conversion and the end-user's need for seamless, uninterrupted living.

This core belief extends across our entire product lineup, from home installations to heavy commercial and industrial systems to utility scale projects.
Advanced hardware engineered to eliminate operational hassle, giving every user absolute peace of mind.

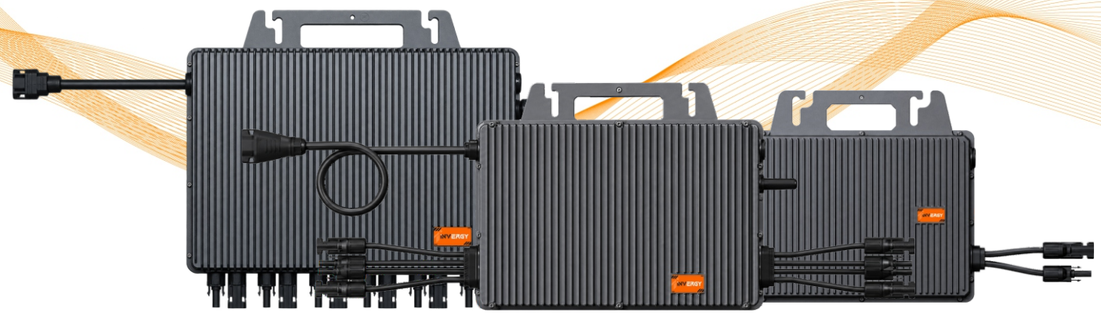
Attribute	Defnition	Benefit to User
High Conversion Efficiency	Maximum energy output with minimal waste.	Lower electricity bills and faster ROI.
Rugged Architecture	Engineered for extreme climetic conditions worldwide	Peace of mind in volatile climates.
Smart Monitoring	Integrated Iot and real-time data tracking.	Control your power from anywhere in the world.
Cutting-edge Technology	Protection against voltage fluctuations	Peace of mind for unstable grid & equipment life



RESIDENTIAL SOLUTIONS



MICROINVERTER



Scan For More Info.

INV 1.1 MGT | INV 2.0 MGT | INV 3.0 MGT

Key Features:

- Plug & Play Installation For Quick And Easy Setup.
- Up To 96.7% Peak Conversion Efficiency.
- Dual MPPT Design For Maximum Energy Harvest.
- Compatible With 300–600+ W High-power PV Modules.
- Integrated Rsd For Enhanced System Safety.
- Remote Firmware Upgrade For Easy Maintenance And Performance Enhancements.
- IP67-rated Enclosure For Reliable Outdoor Operation.
- Fanless Natural Cooling For Silent Operation.
- RS485 Communication For Seamless System Integration.
- 12-year Standard Warranty For Long-term Reliability.
- Extendable Warranty Up To 25 Years.
- Wifi, Bluetooth & 4G Support For Real-time Remote Monitoring.

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Model	INV 1.1 MGT	INV 2.0 MGT	INV 3.0 MGT
Input(DC)			
Recommended Module Power [Wp]	300-600+	400–700+	
Quantity of PV Module	1 to 2	1 to 4	1 to 6
Start up Voltage @Rated condition [V]	22	22	
MPPT Voltage Range per Input [V]	16–60	16–60	
Max. Input Voltage per Input [V]	60	60	
Short Circuit Current [A]	20	25	
Max. Input Current per Input [A]	16	18	
Quantity of MPPT	2	4	6
Quantity of DC Inputs [MC4]	2	4	6
Output(AC)			
Nominal Continuous Output Power [W]	1100	2000	3000
Max. Output Current [A]	5.5	10	15
Nominal Output Voltage [V]	220/230/240 V, L/N/PE		
Nominal Frequency [Hz]	50/60		
Power Factor	>0.99 default, 0.8 leading ... 0.8 lagging		
Output Current Harmonic Distortion	<3%		
Maximum Units per 12AWG Branch	7	3	2
Maximum Units per 10AWG Branch	9	5	3
Efficiency			
Peak Inverter Efficiency	96.7%		97.0%
EU Weighted Efficiency	96.7%	96.5%	96.7%
Nominal MPPT Efficiency	99.9%		
Night Time Power Consumption	<50 mW		
Mechanical Data			
Dimensions [WxHxD mm]	261 × 228 × 32	331 × 261 × 44 mm	380 × 313 × 49 mm
Weight [kg]	2.8	5	8.2
General Data			
Communication	WiFi (Bluetooth) or 4G, RS485 (Optional)	WiFi (Bluetooth) or 4G, Rs485×2 (Optional)	
Cable/Assembling	AC Cable up to 0.5m with T Connector		
Type of Isolation	HF Isolation		
Type of Enclosure	IP67		
Cooling	Natural convection		
Operating Ambient Temperature Range	-40 ~ +65°C (derating of over 40°C Ambient Temperature @ PV input 30V)		
Relative Humidity	100%		
Max. Operating Altitude Without Derating [m]	2000		

* The AC voltage and frequency range may very depending on specific country grid.

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SINGLE PHASE SOLAR GTI

INV (EU)-EGT-01 Series



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INV(EU)-E-1.5 GT-01 | INV(EU)-E-2.0 GT-01 | INV(EU)-E-2.2 GT-01 | INV(EU)-E-3.0 GT-01 | INV(EU)-E-3.3 GT-01

INV(EU)-E-3.6 GT-01 | INV(EU)-E-4.0 GT-01 | INV(EU)-E-4.2 GT-01 | INV(EU)-E-5.0 GT-01 | INV(EU)-E-6.0 GT-01

Key Features:

- IP65 Rated
- AFCI (Optional)
- Dual Cooling System (Force + Natural)
- Unique H6 Topology Prevents Leakage Current
- Wide Range Of AC Grid Voltage Up To 290 Volt
- Within 24 Hours Replacement, 365 Days Up-time

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DATASHEET

Model	INV(EU)-E-1.5GT-01	INV(EU)-E-2.0GT-01	INV(EU)-E-2.2GT-01	INV(EU)-E-3.0GT-01	INV(EU)-E-3.3GT-01	INV(EU)-E-3.6GT-01	INV(EU)-E-4.0GT-01	INV(EU)-E-4.2GT-01	INV(EU)-E-5 GT-01	INV(EU)-E-6 GT-01
Input (DC)										
Recommended max. PV input power	2250Wp	3000Wp	3300Wp	4500Wp	4950Wp	5400Wp	6000Wp	6300Wp	7500Wp	7800Wp
Max. PV Input voltage	550V									
Min. System Start PV voltage / Start-up input	65V / 70V	75V / 100V								
Nominal PV Input voltage	450V									
MPPT Voltage Range	100V - 500V									
No. of Independent MPPT Inputs	1									
Default No. of PV Strings Per MPPT	1									
Max. PV Input Current	18A								22A	
Max. DC Short-Circuit Current	25A								30A	
Output (AC)										
Nominal AC Output Power	1500W	2000W	2200W	3000W	3300W	3600W	4000W	4200W	5000W	6000W
Max. AC Output Power	1650 VA	2200 VA	2420 VA	3300 VA	3630 VA	3960 VA	4400 VA	4620 VA	5500 VA	6600 VA
Max. AC Output Current	6A	8A	12A	16A	16.6A	17.22A	19.13A	20.09A	23.91A	28.70A
Nominal AC Output Voltage Range	220V / 230V									
AC Voltage Range	140V - 300V									
Rated Grid Frequency/Grid Frequency Range	50 Hz / 45 - 55 Hz, 60 Hz / 55 - 65 Hz									
Harmonic (THD)	< 1.5 % (at rated power)				< 2.5 % (at rated power)					
Power Factor at Rated Power / Adjustable	~1 / (Adjustable 0.8 leading - 0.8 lagging)									
Efficiency										
Max. Efficiency	97.30%		97.40%	97.50%	97.80%			97.50%	97.60%	
MPPT Efficiency	99.90%									
Protection										
Grid Monitoring	Yes									
DC Reverse Polarity Protection	Yes									
Short-Circuit Protection	Yes									
Leakage Current Protection	Yes									
Surge Protection	Yes									
DC switch	Yes									
Anti Islanding/Overvoltage Protection	Yes									
PV String Current Monitoring	Yes									
General Data										
Dimensions (Excluding Connectors)	315(H) mm * 300(W) mm * 108(D) mm								380(H) mm * 305(W) mm * 118(D) mm	
Weight	5 kg								8 kg	
MountingMethod	Wall-Mounting Bracket									
Topology	Transformerless									
Degree ofProtection	IP65 According to IEC60529									
Operating Ambient Temperature Range	-25°C - 60°C									
Allowable Relative Humidity Range (Non-Condensing)	0 - 95 %									
Cooling Method	Smart Cooling									
Max. Operating Altitude	<2000m Without Power Derating									
Display	Graphic LCD									
Communication	Wifi Standard, RS485 optional									
DC Connection Type	Mc4 Compatible Connector									
AC Connection Type	Plug and Play Connector									
Night Power Consumption (w)	<0.2									
Acoustic Noise Level (dB)	<25									
Warranty	8 Years									
Standards and Compliance										
Grid Compliance	CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2, BIS, IEC 60068-2, IEC 61683:1999, IEC 61727:2004, IEC 62116:2014, IEC/EN 62109-1, IEC/EN 62109-2, IEC 61000									

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THREE PHASE SOLAR GTI

INV TP Series



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INV 5.0 TP | INV 6.0 TP | INV 8.0 TP | INV 10.0 TP | INV 12.0 TP | INV 15.0 TP | INV 18.0 TP | INV 20.0 TP | INV 25.0 TP

Key Features:

- IP65 Rated
- AFCI (Optional)
- Patented Cooling Design
- Unique H6 Topology Prevents Leakage Current
- Wide Range Of AC Grid Voltage Up To 290 Volt
- Within 24 Hours Replacement, 365 Days Up-time

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DATASHEET

Model	INV 5.0 TP	INV 6.0 TP	INV 8.0 TP	INV 10.0 TP	INV 12.0 TP	INV 15.0 TP	INV 18.0 TP	INV 20.0 TP	INV 25.0 TP
Input (DC)									
Recommended max. PV Input Power	7500Wp	9000Wp	12000Wp	15000Wp	18000Wp	20000Wp	27000Wp	30000Wp	33000Wp
Max. PV Input voltage	1050V						1000V		
Min. Working Voltage	160 VDC						250 VDC		
Nominal PV Input voltage	850 VDC								
MPPT Voltage Range	160 - 850 VDC						200 - 850 VDC		
No. of Independent MPPT Inputs	1						2		
Default No. of PV Strings Per MPPT	2								
Max. PV Input Current	22A			30A	36A		26/26 A		36/26 A
Max. DC Short-Circuit Current	30A			40A	48A		34/34 A		46/34 A
Output (AC)									
Nominal AC Output Power	5000W	6000W	8000W	10000W	12000W	15000W	18000W	20000W	25000W
Max. AC Output Power	6000VA	7000VA	8800VA	11000VA	13200VA	16500VA	19800VA	22000VA	27500VA
Max. AC Output Current	10A	12A	15A	17A	20A	25A	26.1A	29A	36.23A
Nominal AC Output Voltage Range	50/60 Hz, 400 Vac								
AC Voltage Range	280 ~ 490 Vac								
Rated Grid Frequency/Grid Frequency Range	50 Hz / 45 - 55 Hz, 60 Hz / 55 - 65 Hz								
Harmonic (THD)	< 5 % (At Rated Power)			< 1.5 % (at rated power)					
Power Factor at Rated Power / Adjustable Power Factor	~1 / (Adjustable 0.8 leading - 0.8 lagging)								
Efficiency									
Max. Efficiency	98.20%		98.30%	97.40%		99.50%	98.50%		
MPPT Efficiency	99.90%								
Protection									
Grid Monitoring	Yes								
DC Reverse Polarity Protection	Yes								
Short-Circuit Protection	Yes								
Leakage Current Protection	Yes								
Surge Protection	Yes								
DC switch	Yes								
Anti Islanding/Overvoltage Protection	Yes								
Residual Current Protection	Yes								
General Data									
Dimensions (Excluding Connectors)	420(W) mm * 370(H) mm * 130(D) mm						520(W) mm * 510(H) mm * 160(D) mm		
Weight	16 kg				23 kg				
Mounting Method	Wall-Mounting Bracket								
Topology	Transformerless								
Degree of Protection	Ip65 According to IEC60529								
Operating Ambient Temperature Range	-25°C - 60°C								
Allowable Relative Humidity Range (Non-Condensing)	0 - 95 %, No Condensation								
Cooling Method	Smart Cooling								
Max. Operating Altitude	3000m Without Power Derating								
Display	LCD								
Communication	Wifi Standard, Rs485, GPRS								
DC Connection Type	Mc4 Compatible Connector								
Acoustic Noise Level (dB)	<30								
Warranty	8 Years								
Standards and Compliance									
Grid Compliance	CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2, BIS, IEC 60068-2, IEC 61683:1999, IEC 61727:2004, IEC 62116:2014, IEC/EN 62109-1, IEC/EN 62109-2, IEC 61000								

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HYBRID OGH MAX

Single Phase



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INV-H-4.0kW-24V | INV-H-6.0kW-48V | INV-H-8.0kW-48V | INV-H-11.0kW-48V

Key Features:

- IP54 Rated Enclosure
- Standard RS232/USB, CAN & RS485 (for Bms); Optional Wifi
- Built-in MPPT Solar Charger For Efficient PV Energy Harvesting
- Max PV Array Open Voltage 500VDC; MPPT Voltage Range 60–450VDC
- Off-grid Standard, On-grid Optional; Two Outputs For Smart Load Management
- Lithium Or Lead-acid, With Battery Equalization Function To Extend Life Cycle
- 93% Peak Efficiency; Fast Transfer Time (10ms For PCS, 20ms For Home Appliances)
- Ac Overcurrent, Overvoltage, Over-temperature Protection, Smart Load Management

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TECHNICAL SPECIFICATION				
Rated Power	INV-H-4.0kW-24V	INV-H-6.0kW-48V	INV-H-8.0kW-48V	INV-H-11.0kW-48V
AC INPUT				
AC Voltage	230VAC			
Voltage Range	170-280VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)			
Frequency Range	50/60Hz (Auto sensing)			
AC OUTPUT				
Surge Power	8000VA	12000VA	16000VA	22000VA
AC Voltage Regulation (Battery Mode)	230VAC ± 5%			
Rated Frequency	50/60Hz			
Efficiency (Peak)	93%			
Transfer Time	10ms (For Personal Computers) ; 20ms (For Home Appliances)			
BATTERY				
Battery Voltage	24VDC	48VDC		
Floating Charge Voltage	54VDC			
Overcharge Protection	63VDC			
Battery Type	Lithium/Lead-acid			
SOLAR CHARGER & AC CHARGER				
Maximum PV Array Open Voltage(V)	500VDC			
Maximum PV Array Power	500W	7000W	11000W(5500*2)	13000W(6500*2)
MPPT Voltage Range(V)	60~450VDC			
Maximum Input Current	27A		27A*2(MAX 40A)	
MPPT Tracker / Strings	1		2	
Maximum Solar Charge Current	120A		150A	
Maximum AC charge current	100A		120A	150A
Maximum Charge Current	120A			150A
PROTECTION & FEATURE				
AC Overcurrent	Yes			
AC Overvoltage	Yes			
Over Temperature Protection	Yes			
Smart Load Management	Yes			
Parallel Function	Yes (Optional,6 units)			
GENERAL PARAMETERS				
Dimensions (L/W/H)	36 / 52 / 13 cm		64 / 49 / 13.5 cm	64 / 49 / 13.5 cm
Weight	11.3kg	12.5kg	21.8kg	
Operation Temperature	-10°C ~ 50°C			
Relative Humidity	5% ~ 95% (Non-condensing)			
Altitude	(2000m Derating)			
COMMUNICATION				
Interface	Standard: RS232,USB; CAN&RS485; Optional:WiFi			
Safety Standard	EN/IEC62109-1,EN/IEC62109-2			

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HYBRID OGH MAX PLUS

Single Phase



INV-HD-6.0kW-48V

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Key Features:

- IP54 Rated Enclosure
- Standard RS232/USB, CAN & RS485 (for BMS); Optional Wifi
- Built-in MPPT Solar Charger For Efficient Pv Energy Harvesting
- Max PV Array Open Voltage 500VDC; MPPT Voltage Range 60–450VDC
- Off-grid Standard, On-grid Optional; Two Outputs For Smart Load Management
- Lithium Or Lead-acid, With Battery Equalization Function To Extend Life Cycle
- 93% Peak Efficiency; Fast Transfer Time (10ms For PCS, 20ms For Home Appliances)
- Ac Overcurrent, Overvoltage, Over-temperature Protection, Smart Load Management

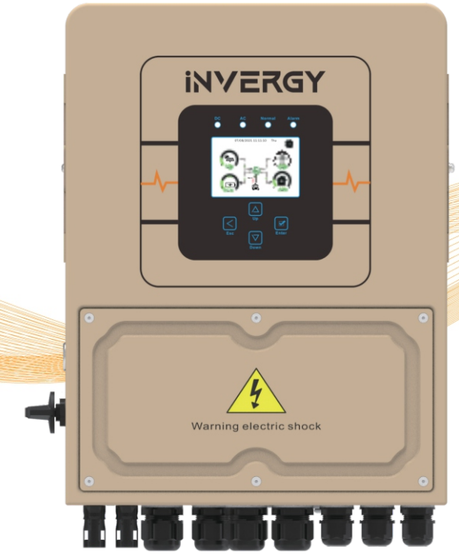
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TECHNICAL SPECIFICATION	
Rated Power	INV-HD-6.0kW-48V
AC INPUT	
AC Voltage	230VAC
Voltage Range	170-280VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)
Frequency Range	50/60Hz (Auto sensing)
AC OUTPUT	
Surge Power	12000VA
AC Voltage Regulation (Battery Mode)	230VAC ± 5%
Rated Frequency	50/60Hz
Efficiency (Peak)	93%
Transfer Time	10ms (For Personal Computers) ; 20ms (For Home Appliances)
BATTERY	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
Overcharge Protection	63VDC
Battery Type	Lithium/Lead-acid
SOLAR CHARGER & AC CHARGER	
Maximum PV Array Open Voltage(V)	500VDC
Maximum PV Array Power	2*4000W
MPPT voltage Range(V)	60~450VDC
Maximum Input Current	2*16A
MPPT Tracker / Strings	2
Maximum Solar Charge Current	120A
Maximum AC Charge Current	100A
Maximum Charge Current	120A
PROTECTION & FEATURE	
AC Overcurrent	Yes
AC Overvoltage	Yes
Over Temperature Protection	Yes
Smart Load Management	Yes
Parallel Function	Yes (Optional,6 units)
GENERAL PARAMETERS	
Dimentions (L/W/H)	56 / 47.5 / 13.5 cm
Weight	15.9kg
Operation Temperature	-10°C ~ 50°C
Relative Humidity	5% ~ 95% (Non-condensing)
Altitude	(2000m Derating)
COMMUNICATION	
Interface	Standard: RS232,USB; CAN&RS485; Optional:WiFi
Safety Standard	EN/IEC62109-1,EN/IEC62109-2

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SINGLE PHASE HYBRID INVERTER (LV)



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INV(EU)-3kW-24V | INV(EU)-3.6kW-48V | INV(EU)-5kW-48V | INV(EU)-6kW-48V | INV(EU)-8kW-48V

Key Features:

- DG Synchronization
- Colorful Touch LCD
- IP65 Rated
- AC Couple To Retrofit Existing Solar System
- Max. Charging/Discharging Current Of 190A
- 6 Time Periods For Battery Charging/Discharging
- Max. 16 Nos. Parallel For On-Grid & Off-Grid Operation

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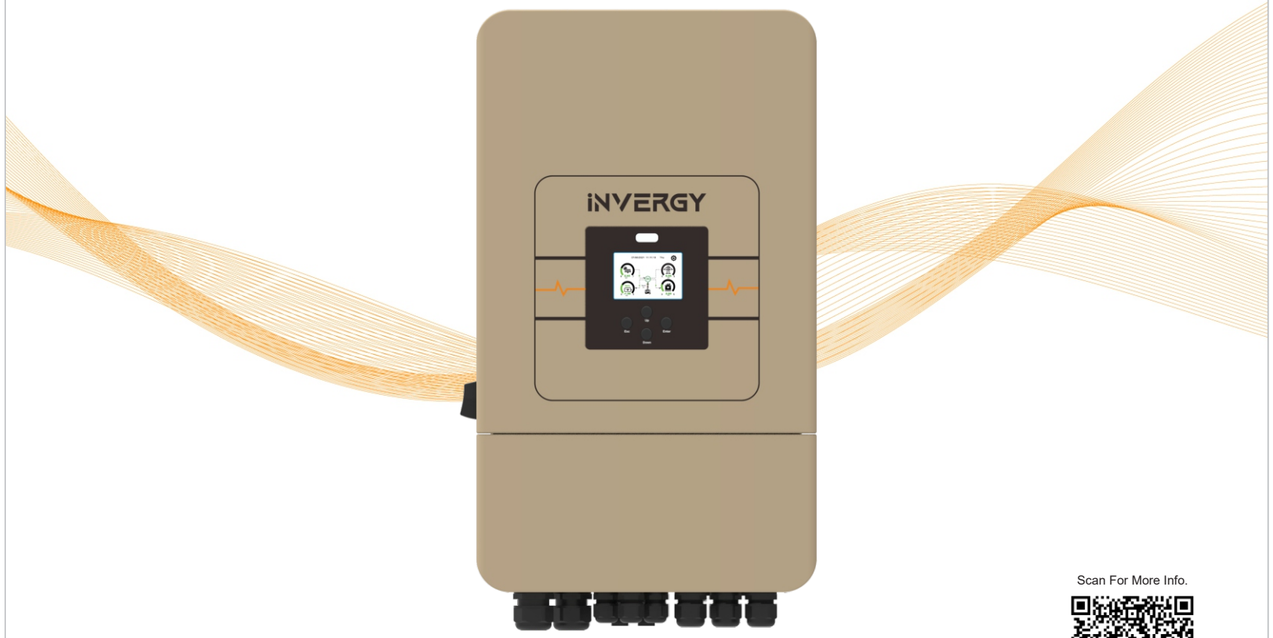
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DATASHEET

Model	INV(EU)-3kW-24V	INV(EU)-3.6kW-48V	INV(EU)-5kW-48V	INV(EU)-6kW-48V	INV(EU)-8kW-48V
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	20-30	40-60			
Max. Charging/Discharging Current (A)	140	90	120	135	190
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. PV Access Power (W)	6000	7200	10000	12000	16000
Max. PV Input Power (W)	4800	5760	8000	9600	12800
Max. PV Input Voltage (V)	500				
Start-up Voltage (V)	125				
MPPT Voltage Range (V)	150-425				
Rated PV Input Voltage (V)	370				
Max. Operating PV Input Current (A)	18	18+18			26+26
Max. Input Short-Circuit Current (A)	27	27+27			34+34
No. of MPPT Trackers/Strings MPPT Tracker	1.0/1	2/1+1			2/2+2
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	3000	3600	5000	6000	8000
Max. AC Input/Output Apparent Power (VA)	3300	3960	5500	6600	8800
Rated AC Input/Output Current (A)	13.7/13.1	16.4/15.7	22.8/21.8	27.3/26.1	36.4/34.8
Max. AC Input/Output Current (A)	15/14.4	18/17.3	25/24	30/28.7	40/38.3
Max. Continuous AC Passthrough grid to load		35		40	50
Peak Power (off-grid) (W)	2 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65 Hz				
Grid Connection Form	L+N+PE				
Total Current Harmonic Distortion (THD)	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.60%				
Euro Efficiency	97.00%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring,Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch,DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
Communication Interface	RS485/RS232/CAN				
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)				
General Data					
Operating Temperature Range (°C)	-40°C TO 60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	2000m				
Noise (dB)	≤30				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category Cabinet	OVC II(DC), OVC III(AC)				
Dimensions (Excluding Connectors and Brackets)	376(W) mm × 470(H) mm × 241.0(D) mm				
Weight (kg)	17.6			19	26.8
Type of Cooling	Natural cooling				Intelligent Air Cooling
Warranty	5 Years, The Warranty Period Depends on the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2, BIS				

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THREE PHASE HYBRID INVERTER (LV)



INV (EU)-5kW/6kW/8kW/10kW-48V

INV (EU)-12kW/15kW/20kW-48V

Scan For More Info.

Key Features:

- DG Synchronization
- Support Multiple Batteries Parallelly
- Max. Charging/Discharging Current Of 350A
- 6 Time Periods For Battery Charging/Discharging
- Max. 10 pcs Parallel For On-Gird & Off-Grid Operation
- 100% Unbalanced Output, Each Phase: Max. output Up To 50% Rated Power

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DATASHEET

Model	INV 5K-3P(LV)	INV 6K-3P(LV)	INV 8K-3P(LV)	INV 10K-3P(LV)	INV 12K-3P(LV)	INV 15K-3P(LV)	INV 20K-3P(LV)
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range (V)	40-60						
Max. Charging/Discharging Current (A)	120	135	190	210	240	280	350
Charging Strategy for Li-ion Battery	Self-adaption to BMS						
Number of Battery Input	1						
PV String Input Data							
Max. PV Access Power (W)	10000	12000	16000	20000	24000	30000	40000
Max. PV Input Power (W)	8000	9600	12800	16000	19200	24000	32000
Max. PV Input Voltage (V)	800						
Start-up Voltage (V)	160						
MPPT Voltage Range (V)	200-650					160-650	
Rated PV Input Voltage (V)	550						
Max. Operating PV Input Current (A)	20+20			26+26		36+36	
Max. Input Short-Circuit Current (A)	30+30			39+39		54+54	
No. of MPPT Trackers/Strings MPPT Tracker	2/1+1					2/2+2	
AC Input/Output Data							
Rated AC Input/Output Active Power (W)	5000	6000	8000	10000	12000	15000	20000
Max. AC Input/Output Apparent Power (VA)	5500	6600	8800	11000	13200	16500	22000
Rated AC Input/Output Current (A)	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	18.2/17.4	22.8/21.8	30.4/29
Max. AC Input/Output Current (A)	8.4/8	10/9.6	13.4/12.8	16.7/16	20/19.2	25/24	33.4/31.9
Max. Continuous AC Passthrough grid to load	45					70	
Peak Power (off-grid) (W)	2 times of rated power, 10s						
Power Factor Adjustment Range	0.8 leading to 0.8 lagging						
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un						
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65 Hz						
Grid Connection Form	3L+N+PE						
Total Current Harmonic Distortion THDi	<3% (of nominal power)						
DC Injection Current	<0.5% In						
Efficiency							
Max. Efficiency	97.60%						
Euro Efficiency	97.00%						
MPPT Efficiency	>99%						
Equipment Protection							
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring,Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch,DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level						
Surge Protection Level	TYPE II(DC), TYPE II(AC)						
Interface							
Communication Interface	RS485/RS232/CAN						
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)						
General Data							
Operating Temperature Range (°C)	-40°C TO 60°C, >45°C Derating						
Permissible Ambient Humidity	0-100%						
Permissible Altitude	3000m						
Noise (dB)	≤55						≤30
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated						
Over Voltage Category Cabinet	OVC II(DC), OVC III(AC)						
Dimensions (Excluding Connectors)	470(H) mm x 376(W) mm x 241.0(D) mm						
Weight (kg)	35.2						50.6
Type of Cooling	Intelligent Air Cooling						
Warranty	5 Years, The Warranty Period Depends on the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy						
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105						
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2, BIS						

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INVERGY

LifePO4 BATTERY (TB)



Scan For More Info.

INV LFP 12007-TB | INV LFP 12012-TB | INV LFP 12018-TB | INV LFP 12080-TB | INV LFP 12100-TB

INV LFP 12150-TB | INV LFP 12200-TB | INV LFP 24100-TB | INV LFP 24200-TB

Key Features:

- High Energy Density
- Short Circuit Protection
- Bluetooth Connectivity
- Long Life Cycle

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INVERGY

Model	INV LFP 12007-TB	INV LFP 12012-TB	INV LFP 12018-TB	INV LFP 12080-TB	INV LFP 12100-TB	INV LFP 12150-TB	INV LFP 12200-TB	INV LFP 24100-TB	INV LFP 24200-TB
Module Voltage	12.8V							25.6V	
Module Capacity	7AH	12AH	18AH	80AH	100AH	150AH	200AH	100AH	200AH
Module Charging Voltage	14.6V							29.2V	
Module Discharging Voltage	11.2V							22.4V	
Max. Charge Current	3.5A	6A	9A	40A	50A	75A	100A	50A	100A
Max. Discharge Current	7A	12A	18A	80A	100A	150A	200A	100A	200A
Rated Output	89.6Wh	153.6Wh	230.4Wh	1024Wh	1280Wh	1920Wh	2560Wh	2560Wh	5120Wh
Operating Temperature	–20 to 60 °C								
Storage Temperature	25°C								
Module Cycles	<6000 CYCLES								
Protection Class	IP54								
Dimension (mm)	L149*H64*W100	L151*H99*W98	L235*H95*W175	L254*H208*W162	L330*H175*W215	L317*H220*W177.5	L495*H228*W241	L495*H215*W241	L495*H215*W266
Weight (Approx.)	1.2KG	1.9KG	3.2KG	10.5KG	10.6KG	16KG	20KG	20.8KG	38KG
Battery Protection	Short Circuit- Short Circuit The battery is to be short-circuited by connecting the positive and negative terminals of the battery with an external load of less than 100mΩ. The battery shall not rupture or catch fire. The temperature<150°C.								
	Over charge- Over charge The battery charged completely will be charged continuously for 8hrs with the external power supply of the limit voltage of 3.8V and the current of 1C5A. The battery shall not rupture or catch fire. The temperature<150°C.								
	Over Discharge- Over discharge After complete charge, the battery will be discharged to end voltage. Then connect with external load of 30Ω for 24hrs. The battery shall not rupture, smoke, catch fire.								
Battery Usage	Do not connect more than 4 battery in the series								
	Do not short circuit battery terminal								
	Do not open, disassemble, squeeze or strike the battery								
	Do not use unmatched charger or inverter for the battery								
	Keep away the battery from fire and water								
	Store the battery at room temp. in dry condition								

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ENERGY STORAGE SOLUTION (E.S.S.) –WALL MOUNT



INV ESS 5.12 kWh Wall Mount

Scan For More Info.

Key Features:

- Bluetooth Connectivity
- RS485, Can & RS232 Communication
- Supports Parallel Connection Up To 16 Units
- IP54-rated Enclosure For Outdoor Protection
- Built-in 3.5 Inch LCD Screen For Real-time Monitoring
- Active Cell Balancing - Optimized Performance & Longer Battery Life
- Complete Safety Protection – Over-temp, Overcharge, Over-discharge & Short-circuit Protection
- Cell-level Voltage, Current & Temperature Monitoring With SOC Reporting

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General Specification	INV ESS 5.12kWh
Product Type	Rechargeable Li-ion Battery
Model Number	INV ESS 51.2V / 100Ah
Rated Voltage	51.2V
Rated Capacity	100Ah
Rated Energy	5.12kWh
Charge–Discharge Rate	0.5C
Depth of Discharge	80%
Operating Temperature	–20 to 60 °C
Warranty	5 Years (0.5C Charge/ Discharge, @80% DoD, @25 °C)
Cell Balancing	Active Balancing
Electrical Characteristics	
Max. Charge Voltage	58.4V
Min. Discharge Voltage	40V
Max Continuous Charge Current	50A
Max. Continuous Discharge	50A
Operating Voltage Range	40V - 58.4V ± 0.5
Charge Temp	0 to 50 °C (<85 % RH)
Discharge Temp	–20 to 60 °C (<85 % RH)
Protection Feature	
Over Temp Protection	Yes
Overcharge Protection	Yes
Overdischarge Protection	Yes
Short Circuit Protection	Yes
Cell Specification	
Cell Type	LFP Prismatic
Cell Model	3.2V 100Ah
Nominal Voltage	3.2V
Rated Capacity	100Ah
Voltage at End of Charge	3.65V
Voltage at End of Discharge	2.5V
Max Charge Rate	0.5C
Max Discharge Rate	0.5C
Cell Weight	2.1kg
Pack Specification	
Pack configuration	16S1P
Pack Nominal Voltage	51.2V
Pack Capacity	100Ah
Pack Energy	5.12kWh
Features	
Battery Management System (BMS)	Cell-Level Monitoring: Manages voltage, current, and temperature for every cell/module. State of Health (SOH): Estimates and reports the degradation status. Safety Logic: Executes emergency shutdown on over-current, over-temperature or fault detection.
Enclosure & Protection	IP Rating: IP54 (for outdoor environmental protection).
Safety & Protection	Over Temperature, Overcharge, Overdischarge & Short Circuit Protection
Control & Communication	Monitoring Communication: Standard Industrial protocols (eg. RS232, RS485 , CAN)
Scalability	Supports parallel connection of up to 16 batteries for capacity expansion.

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ENERGY STORAGE SOLUTION (E.S.S.) -STACK MOUNT



INV ESS 5.12 kWh Stack Mount

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Key Features:

- Bluetooth Connectivity
- RS485, Can & RS232 Communication
- IP54-rated Enclosure For Outdoor Protection
- Built-in 3.5 Inch LCD Screen For Real-time Monitoring
- Up To 6 Batteries Per Stack & Up To 16 Batteries In Parallel
- Active Cell Balancing - Optimized Performance & Longer Battery Life
- Complete Safety Protection – Over-temp, Overcharge, Over-discharge & Short-circuit Protection
- Cell-level Voltage, Current & Temperature Monitoring With SOC Reporting

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General Specification	INV ESS 5.12 kWh
Product Type	Rechargeable Li-ion Battery
Model Number	INV ESS 51.2V / 100Ah
Rated Voltage	51.2V
Rated Capacity	100Ah
Rated Energy	5.12kWh
Charge–Discharge Rate	0.5C
Depth of Discharge	80%
Operating Temperature	–20 to 60 °C
Warranty	5 Years (0.5C Charge/ Discharge, @80% DoD, @25 °C)
Cell Balancing	Active Balancing
Electrical Characteristics	
Max. Charge Voltage	58.4V
Min. Discharge Voltage	40V
Max Continuous Charge Current	50A
Max. Continuous Discharge	50A
Operating Voltage Range	40V - 58.4V ± 0.5
Charge Temp	0 to 50 °C (<85 % RH)
Discharge Temp	–20 to 60 °C (<85 % RH)
Protection Feature	
Over Temp Protection	Yes
Overcharge Protection	Yes
Overdischarge Protection	Yes
Short Circuit Protection	Yes
Cell Specification	
Cell Type	LFP Prismatic
Cell Model	3.2V 100Ah
Nominal Voltage	3.2V
Rated Capacity	100Ah
Voltage at End of Charge	3.65V
Voltage at End of Discharge	2.5V
Max Charge Rate	0.5C
Max Discharge Rate	0.5C
Cell Weight	2.3kg
Pack Specification	
Pack configuration	16S1P
Pack Nominal Voltage	51.2V
Pack Capacity	100Ah
Pack Energy	5.12kWh
Features	
Battery Management System (BMS)	Cell-Level Monitoring: Manages voltage, current, and temperature for every cell/module. State of Health (SOH): Estimates and reports the degradation status. Safety Logic: Executes emergency shutdown on over-current, over-temperature or fault detection.
Enclosure & Protection	IP Rating: IP54 (for outdoor environmental protection).
Safety & Protection	Over Temperature, Overcharge, Overdischarge & Short Circuit Protection
Control & Communication	Monitoring Communication: Standard Industrial protocols (eg. RS232, RS485 , CAN)
Scalability	Supports parallel connection of up to 16 batteries for capacity expansion.

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COMMERCIAL &
INDUSTRIAL SOLUTIONS



THREE PHASE INVERTERS
33 KW-50 KW



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INV 33 TP

INV 50 TP

Key Features:

- Compact wall mount design
- ShadeSol shadow management
- International quality standards
- IP66 rated design for outdoor use
- Quick setup and commissioning via apps
- 5 MPPT´s for flexible PV array design
- Wide MPP voltage range 200V-1000V
- Quick & easy-to-install with basic tools
- 150 % PV array oversizing for higher yields
- 13 A input current, ideal for bifacial and large area PV modules

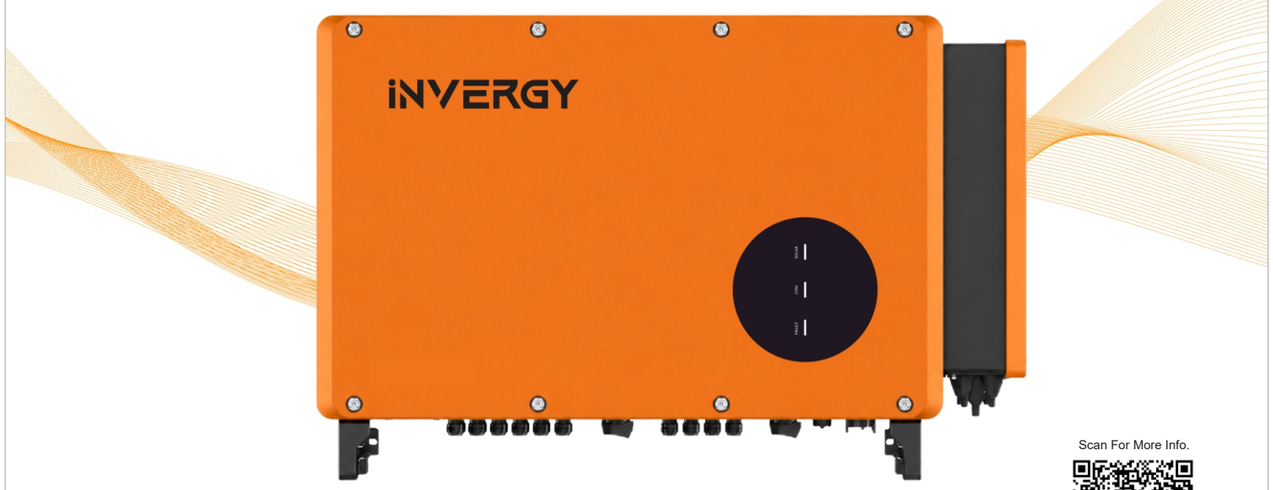
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Model	INV 33 TP	INV 50 TP
Input(DC)		
Max. PV Array Power	49.5 kWp	75 kWp
Max. Input Voltage	1100V	
MPP Voltage Range / Rated Input Voltage	200V - 1000V / 630V	
Min. Input Voltage	200V	
Initial. Feed-in Voltage	250V	
Max. Operating Input Current	26A	40A / 32A / 32A / 40A / 32A
Max. Short Circuit Current	40A	60A / 48A / 48A / 60A / 48A
No. of Independent MPPT Inputs / Strings Per MPPT Input	3 / 2	5 / 2
Output(AC)		
Rated Active Power	33 kW	50 kW
Rated Apparent Power	33 kVA	50 kVA
Max. Apparent Power	33 kVA	55 kVA
AC Nominal Voltage	220V / 380V 230V / 400V	
AC Voltage Range	180V to 305V / 312V to 528V	
AC Grid Frequency / Range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz	
Max. Output Current	55.0 A	83.6 A
Adjustable Power Factor Range	0.8 leading to 0.8 lagging	
Feed-in Phases	3 / 3-N-PE	
Harmonic Distortion (THD) At Rated Output	< 3%	
Efficiency & Protection		
Max. Efficiency/European Efficiency	98.6% / 98.3%	
DC switch	Yes	
Ground Fault Monitoring / Grid Monitoring	Yes / Yes	
DC Reverse Polarity Protection / AC Short-circuit Protection	Yes / Yes	
All-Pole-Sensitive Residual-Current Monitoring Unit	Yes	
Anti-Islanding Protection	Yes	
Surge Protection	Yes / Type II	
Protection Class (According to IEC 62109-1) / Overvoltage Category (According to IEC 62109-1)	I / AC: III; DC: II	
General Data		
Dimensions (W/H/ D)	670 / 580 / 270 mm	670 / 640 / 270 mm
Weight	42 kg	43 kg
Operating Temperature Range	-25°C ... +60°C	-25°C to 60°C
Self-Consumption (At Night)	< 1W	
Topology	Non-isolated	
Cooling Concept	Active cooling	
Degree of Protection (According to IEC 60529)	IP66	
Climatic Category (According to IEC 60721-3-4)	4K4H	
Max. Permissible Value for Relative Humidity (Non-Condensing)	100%	
Max. Operating Altitude	3000 m	4000 m
Features		
DC Connection	Plug-in connector	
AC Connection	OT Connector	OT/DT Connector
Mounting Type	Wall-mount bracket	
LED Indicators (Status / Fault / Communication)	Yes	
Communication Interface (Rs485 /Wi-Fi/ LAN /4G)	Yes / Yes / Optional / Optional	
Certificates and Approvals (More Available On Request)	CE, EN50549 ,IEC62109, IEC62116, IEC61727, IEC61683, IEC61000, NB/T 32004	CE, IEC 62109-1/2, IEC 61727,IEC 62116,IEC61683,G98/G99,VDE4110,VED4105,EN50549-1/2

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THREE PHASE INVERTERS
80 KW-150 KW



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INV 80 TP | INV 110 TP | INV 125 TP | INV 150 TP

Key Features:

- Adjustable power factor range of 0.8 leading to 0.8 lagging.
- Max PV input voltage of 1100V with 200V minimum input voltage.
- Integrated DC switch with Type II surge protection for DC and AC.
- Max efficiency of 98.6%-99.0% and European efficiency of 98.4%-98.6%.
- ShadeSol shadow management with string-level management for improved generation.
- Wide MPPT voltage range of 200-1000VDC (630V rated) with 8-10 independent MPPT inputs.
- IP66 enclosure with 4K4H climatic rating, 100% humidity tolerance and operation up to 4000m altitude.
- Complete protection suite including ground fault, grid monitoring, reverse polarity and anti-islanding.
- Operating temperature range of -25°C/-30°C to +60°C with active cooling and non-isolated topology.

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Model	INV 80 TP	INV 110 TP	INV 125 TP	INV 150 TP
Input(DC)				
Max. PV Array Power	120 kWp	165 kWp	187.5 kWp	225 kWp
Max. Input Voltage	1100V			
MPP Voltage Range / Rated Input Voltage	200V - 1000V / 630V			
Min. Input Voltage	200V			
Initial. Feed-in Voltage	250V			
Max. Operating Input Current	32A		10*40A	8*48A
Max. Short Circuit Current	48A		10*50A	8*60A
No. of Independent MPPT Inputs / Strings Per MPPT Input	8 / 2	10/2		8/3
Output(AC)				
Rated Active Power	80 kW	110 kW	125 kW	150 kW
Max. Apparent AC Power	88 kVA	121 kVA	137.5 kVA	165 kVA
AC Nominal Voltage	220V / 380V		380 V / 400 V	
AC Voltage Range	312V - 528V			
AC Grid Frequency / Range	50 Hz / 45 Hz - 55 Hz		60 Hz / 55 Hz - 65 Hz	
Nominal AC Output Current	115.8 A	158.8 A	190.0 A	227.9 A
Max. AC Output Current	127.0 A	174.7 A	209.0 A	250.7 A
Adjustable Power Factor Range	0.8 leading to 0.8 lagging			
Feed-in Phases	3 / 3-N-PE			
Harmonic Distortion (THD) at Rated Output	≤ 3%			
Efficiency & Protection				
Max. Efficiency/European Efficiency	98.6 % / 98.4 %			99.0% / 98.6%
DC Switch	Yes			
Ground Fault Monitoring / Grid Monitoring	Yes / Yes			
DC Reverse Polarity Protection / AC Short-circuit Protection	Yes / Yes			
AC Overcurrent Protection	Yes			
DC Surge Protection	Type II		Type I+II	Type II / (TypeI+II Optional)
AC Surge Protection	Type II			Type II / (TypeI+II Optional)
All Pole Sensitive Residual Current Monitoring Unit	Yes			
Anti-islanding Protection	Yes			
Arc Fault Circuit Interrupter (AFCI)	Optional		Yes	
PID Recovery	Optional		Optional	
Protection Class (According to IEC 62109-1) / Overvoltage Category (According to IEC 62109-1)	I / AC: III; DC: II			
General Data				
Dimensions (W/H/ D)	984/ 640 / 330 mm			1010 / 757 / 362 mm
Weight	85 kg		87.0 kg	100.9 kg
Operating Temperature Range	-25°C to 60°C		-30 °C ... +60 °C	
Self-Consumption (At Night)	< 3W		< 5W	< 3W
Topology	Non-isolated			
Cooling Concept	Active cooling			
Degree of Protection (According to IEC 60529)	IP66			
Climatic Category (According to IEC 60721-3-4)	4K4H			
Max. Permissible Value for Relative Humidity (Non-Condensing)	100%			
Max. Operating Altitude	4000 m			
EMC	Class B			
Features				
DC Connection	Phoenix Contact		Plug-in connector	
AC Connection	OT/DT Terminal (Max.240mm2)		OT/DT connector	
LED Indicators (Status / Fault / Communication)	Yes			
Communication Interface (RS485 / WiFi / LAN / 4G)	Yes / Yes / Optional / Optional		Yes / Yes / Yes / Optional	Yes / Yes / Optional / Optional
Certificates And Approvals (More Available on Request)	CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC61000, AS/NZS4777, C10/C11,G99		CE, IEC62109-1/2, IEC63027, IEC61727, En50549	

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THREE PHASE
HYBRID INVERTER (HV)



INV(EU)-30kW/40kW/50kW/60kW/80kW

Scan For More Info.

Key Features:

- Dg Synchronization
- 800 Battery Voltage Range
- High Voltage Battery, Higher Efficiency
- Dc Couple And Ac Couple To Retrofit Exiting Solar System
- 100% Unbalanced Output, Each Phase: Max. Output Up To 50% Rated Power
- Max. 10 PCS Parallel For On-grid & Off-grid Operation; Support Multiple Batteries Parallelly

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Model	INV(EU)-30K(HV)	INV(EU)-40K(HV)	INV(EU)-50K(HV)	INV(EU)-60K(HV)	INV(EU)-80K(HV)
Battery Input Data					
Battery Type	Li-Ion				
Battery Voltage Range (V)	160-800			160-1000	
Max. Charging/Discharging Current (A)	50+50			80+80	
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	2				
PV String Input Data					
Max. PV Access Power (W)	60000	80000	100000	120000	160000
Max. DC Input Power (W)	48000	64000	80000	96000	128000
Max. DC Input Voltage (V)	1000				
Start-Up Voltage (V)	180				
MPPT Voltage Range (V)	150-850				
Rated DC/PV Input Voltage (V)	600			650	
Max. Operating PV Input Current (A)	36+36+36	36+36+36+36		36+36+36+36+36+36	
Max. Input Short-Circuit Current (A)	55+55+55	55+55+55+55		54+54+54+54+54+54	
No. of MPPT Trackers/Strings MPPT	3/2 + 2+2		4/2+2+2+2	6/2+2+2+2+2+2	
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	30000	40000	50000	60000	80000
Max. AC Input/Output Apparent Power (VA)	33000	44000	55000	66000	88000
Rated AC Input/Output Current (A)	45.5/43.5		75.8/72.5	91/87	121.3/115.9
Max. AC Input/Output Current (A)	50/47.8		83.4/79.8	100/95.7	133.4/127.6
Max. Continuous AC Passthrough (A)	200				
Peak Power (off-grid) (W)	2.5 Times Of Rated Power, 10S			1.5 Times Of Rated Power, 10S	
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated Input/Output Voltage/Range (V)	220/380 V, 230/400V 0.85Un-1.1Un			220/380V, 230/400V, 3L+N+PE	
Rated Input/Output Grid Frequency/Range(Hz)	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz			50/45-55,60/55-65	
Total Current Harmonic Distortion THDi	<3% (Of Nominal Power)				
Grid Type	Three Phase				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.60%			98.70%	
Euro Efficiency	97.00%			98.10%	
MPPT Efficiency	>99%				
Protection					
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level				
Surge Protection	TYPE II(DC), TYPE II(AC)				
Certifications and Standards					
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
General Data					
Operating Temperature Range	-40°C TO 60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	2000m			3000m	
Noise	<65 dB				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Dimensions (Excluding Connectors)	894(H) mm x 527(W) mm x 294(D) mm			927(H) mm x 606(W)mm x 314(D) mm	
Weight (kg)	80			105	
Cooling	Intelligent Air Cooling				
Warranty	5 Years/10Years the Warranty Period Depends Final Installation Site of Inverter. More Info Please Refer to Warranty Policy				
Communication With BMS	RS485;CAN			RS485/RS232/CAN	
Monitor Mode	GPRS/WIFI/BLUETOOTH/4G/LAN (Optional)				
Installation Style	Wall-Mounted				
Interface					
Communication Interface	RS485/RS232/CAN				

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BATTERY ENERGY STORAGE SOLUTION (BESS)-C&I

(Customizable Solution)



INV-ESS-512-100Ah | INV-ESS-563.2-314Ah | INV-ESS-665.6-100Ah

Scan For More Info.

Key Features:

- IP54-rated Enclosure For Outdoor Protection
- Supports Modbus TCP/IP, RS485 & CAN Communication
- Efficient Thermal Management With Cooling Fans On Each Module
- High-performance System Design For Stable Continuous Operation
- Cell-level Voltage, Current & Temperature Monitoring With SOH Reporting
- Complete Safety Protection – Over-temp, Overcharge, Over-discharge & Short-circuit Protection

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General Specification	INV-ESS-512-100Ah	INV-ESS-563.2-314Ah	INV-ESS-665.6-100Ah
Product Type	Rechargeable Li-ion Battery		
Model Number	512V / 100Ah	563.2V / 314Ah	665.6V / 100Ah
Rated Voltage	512 V	563.2V	665.6V
Rated Capacity (Ah)	100Ah	314Ah	100Ah
Rated Energy (kWh)	51.20kWh	176.84kWh	66.56kWh
Charge–Discharge Rate (C)	0.5 C		
Depth of Discharge (%)	80%		
Operating Temperature (°C)	–20 to 60 °C		
Warranty	5 Years (0.5C Charge/ Discharge, @80% DoD, @25 °C)		
Cooling method	Forced Air Cooling (Fans on each pack)		
Electrical Characteristics			
Max. Charge Voltage (V)	584V	642.4V	759.2V
Min. Discharge Voltage (V)	448V	492.8V	582.4V
Max Continuous Charge Current (A)	50A	157A	50A
Max. Continuous Discharge (A)	50A	157A	50A
Operating Voltage Range (V)	448V - 584V ± 0.5	492.8V - 642.4V ± 0.5	582.4V - 759.2V ± 0.5
Protection Feature			
Over Temp Protection	Yes		
Overcharge Protection	Yes		
Overdischarge Protection	Yes		
Short Circuit Protection	Yes		
Cell Specification			
Cell Type	LFP Prismatic		
Cell Model	3.2V 100Ah	3.2V314Ah	3.2V 100Ah
Nominal Voltage (V)	3.2V		
Rated Capacity (Ah)	100Ah	314Ah	100Ah
Voltage at End of Charge (V)	3.65V		
Voltage at End of Discharge (V)	2.5V		
Max Charge Rate (C)	0.5C		
Max Discharge Rate (C)	0.5C		
Cell Weight (kg)	2.1kg	5.6kg	2.1kg
Pack Specification			
Pack configuration	16S1P		
Pack Nominal Voltage (V)	51.2V		
Pack Capacity (Ah)	100Ah	314Ah	100Ah
Pack Energy (kWh)	5.12kWh	16.07kWh	5.12kWh
Rack Specification			
Total Packs	10 Packs	11 Packs	13 Packs
Rack Nominal Voltage (V)	512 V	563.2V	665.6 V
Rack Capacity (Ah)	100Ah	314Ah	100Ah
Rack Energy (kWh)	51.20kWh	176.84kWh	66.56kWh
Cabinet Specification			
No of Racks	1		
Features			
Battery Management System (BMS)	Cell-Level Monitoring: Manages voltage, current and temperature for every cell/module. State of Health (SOH): Estimates and reports the degradation status. Safety Logic: Executes emergency shutdown on over-current, over- temperature or fault detection.		
Enclosure & Protection	IP Rating: IP54 (for outdoor environmental protection). Integrated Thermal Management: Ensure cells operate within the optimal temperature.		
Safety & Protection	Over Temperature, Overcharge, Overdischarge & Short Circuit protection.		
Control & Communication	Monitoring Communication: Standard Industrial protocols (eg. Modbus TCP/IP , RS485)		

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i-TANK MINI

128 kWh
Energy Capacity



128 kWh Battery Energy Storage Cabinet

Scan For More Info.

Key Features:

- Long-life LFP Cells — ≥6,000 Cycles @ 70% SOH, 10-year Design Life
- Comprehensive Protection — Over/under-voltage, Over-current, Short-circuit And Temperature Protection With E-stop
- Aerosol-based Fire Suppression With Integrated Fire Detection For Enhanced Cabinet Safety
- Grid-tied & Standalone Operation — Grid-connected, Off-grid And Backup Modes Supported
- All-in-one Cabinet With Battery Packs, BMU/BMS, Hybrid Inverter And Fire Suppression In One Unit
- Forced-air Cooling With Integrated HVAC — 3kW Capacity For Optimal Cell-level Temperature Control

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TECHNICAL PARAMETERS	
SYSTEM PARAMETERS	
Energy Capacity	128 kWh
Nominal System Voltage	409.6 V DC
Voltage Range	332.8 V - 460.8 V DC
Rated Capacity	314 Ah
Max. Charge / Discharge Rate	0.5P / 0.5P
Round-trip Efficiency	≥90%
System Topology	Compatible with 30 kW to 60 kW Hybrid inverter
Auxillary Power Consumption	≤2.5 kW
Operating Modes	Grid-connected / Off-grid / Backup (as applicable)
BATTERY PARAMETERS	
Cell Type	Prismatic LFP
Cell Capacity	314 Ah
Cell Voltage (Nominal)	3.2 V
Series Configuration Per Pack	1P16S / 51.2 V
Number of Battery Packs	8 * 1P16S (1P 128S)
Total Cells	128 cells
Energy Per Pack	16.08 kWh
Cell Cycle Life (to 70% SOH)	≥6,000 cycles @ 70% SOH
Expected System Life	10 years (typical C&I duty)
THERMAL MANAGEMENT	
Cooling Type	Forced-air cooling with integrated HVAC
Cooling Capacity	3 kW
Refrigerant	R134a
HVAC Operating Temperature Range	-30°C ~ 55°C
Battery Operating Temperature	0°C to +55°C (optimal 10~45°C)
Temperature Monitoring	Cell-level temperature monitoring with integrated HVAC system for maintaining optimal internal cabinet temperature
PHYSICAL	
Product Dimensions (W × D × H)	1140 * 1100 * 1950 mm (without Canopy) 1735* 1100 * 1950 mm (with Canopy)
Cabinet Weight	≈1.5 t
Battery Pack Weight	<110kg per pack
Chiller Unit Weight	≈70 kg
IP Rating	IP54
Altitude	≤4000 m, derating above 2000 m
BMS & SAFETY	
BMS	Integrated two-level BMS for pack and system monitoring and protection
Protection Functions	Over-voltage, under-voltage, over-current, short-circuit, over-temperature and under-temperature protection
Emergency Stop	Integrated emergency shutdown / E-stop
Fire Protection	Integrated fire detection and aerosol-based fire suppression system
WARRANTY & SUPPORT	
Warranty	5-year battery · 12-24 months balance-of-system
Support	24/7 technical support · remote diagnostics · on-site ≤48 h (critical faults)

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i-TANK

AIR COOLED C&I ENERGY STORAGE SYSTEM

208 kWh
Energy Capacity



208 kWh Battery Energy Storage Cabinet

Scan For More Info.

Key Features:

- Long-life LFP Cells — ≥6,000 Cycles @ 70% SOH, 10-year Design Life
- Comprehensive Protection — Over/under-voltage, Over-current, Short-circuit And Temperature Protection With E-Stop
- Aerosol-based Fire Suppression With Integrated Fire Detection For Enhanced Cabinet Safety
- Grid-tied & Standalone Operation — Grid-connected, Off-grid And Backup Modes Supported
- Forced-air Cooling — 3kW Cooling Capacity For Optimal Cell-level Temperature Control
- All-in-one Cabinet With Battery Packs, BMU/BMS, Hybrid Inverter And Fire Suppression In One Unit

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TECHNICAL PARAMETERS	
SYSTEM PARAMETERS	
Energy Capacity	208 kWh
Nominal System Voltage	665.6 V DC
Voltage Range	DC 540.8 V - 748.8 V
Rated Capacity	314 Ah
Max. Charge / Discharge Rate	0.5P /0.5P
Round-trip Efficiency	≥90%
System Topology	Compatible with 30kW to 80kW Hybrid inverter
Auxillary Power Consumption	≤2.5 kW
Operating Modes	Grid-connected / Off-grid / Backup (as applicable)
BATTERY PARAMETERS	
Cell Type	Prismatic LFP
Cell Capacity	314 Ah
Cell Voltage (Nominal)	3.2 V
Series Configuration Per Pack	1P16S / 51.2 V
Number of Battery Packs	13 * 1P16S (1P 208S)
Total Cells	208 cells
Energy Per Pack	16.08 kWh
Cell Cycle Life	≥6,000 cycles @ 70% SOH
Expected System Life	10 years (typical C&I duty)
THERMAL MANAGEMENT	
Cooling Type	Forced Air Cooling
Cooling Capacity	3 kW
Refrigerant	R134a
HVAC Operating Temperature Range	-30°C ~ 55°C
Battery Operating Temperature	-10°C to +55°C (optimal 10~45°C)
Temperature Monitoring	Cell-level temperature monitoring with integrated HVAC system for maintaining optimal internal cabinet temperature
PHYSICAL	
Product Dimensions (W × D × H)	1140 * 1100 * 2470 mm (without Canopy) 1735 * 1100 * 2470 mm (with Canopy)
Cabinet Weight	≈2.2t
Battery Pack Weight	<110kg
Chiller Unit Weight	≈70 kg
IP Rating	IP54
Altitude	≤4000 m, derating above 2000 m
BMS & SAFETY	
BMS	Integrated two-level BMS for pack and system monitoring and protection
Protection Functions	Over-voltage, under-voltage, over-current, short-circuit, over-temperature and under-temperature protection
Emergency Stop	Integrated emergency shutdown / E-stop
Fire Protection	Integrated aerosol-based fire suppression system for enhanced fire safety and protection
WARRANTY & SUPPORT	
Warranty	5-year battery · 12-24 months balance-of-system
Support	24/7 technical support · remote diagnostics · on-site ≤48 h (critical faults)

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i-TANK PRO

LIQUID-COOLED C&I ENERGY STORAGE SYSTEM

125 kW Power Rating | **261 kWh** Energy Capacity



261 kWh Battery Energy Storage Cabinet

Scan For More Info.

Key Features:

- Long-life LFP Cells — ≥6,000 Cycles @ 70% SOH, 10-year Design Life
- Liquid Cooling — 5 kW Chiller Capacity For Optimal Battery Temperature Management.
- Integrated Fire Detection And Three-tier Fire Suppression - Pack, Cluster & Cabinet Level
- Comprehensive Protection — Over/under-voltage, Over-current, Short-circuit And Temperature Protection With E-stop
- All-in-one Cabinet — Integrated Battery Packs, Two-level BMS, PCS And Three-tier Fire Suppression In A Single Unit.
- Grid-tied & Standalone Operation — Supports Grid-tied, Standalone (islanding) And Backup Modes.

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TECHNICAL PARAMETERS	
SYSTEM PARAMETERS	
Energy Capacity	261 kWh
Nominal System Voltage	832 V DC
Voltage Range	650 V – 949 V (2.5 – 3.65 V per cell)
Rated Capacity	314 Ah
Power Rating (Charge / Discharge)	125 kW
Round-trip Efficiency	≥ 90%
System Topology	PCS-based
Auxillary Power Consumption	≤3.5 kW
Operating Modes	Grid-tied / Standalone (islanding mode) / Backup (as applicable)
BATTERY PARAMETERS	
Cell Type	Prismatic LFP
Cell Capacity	314 Ah
Cell Voltage (Nominal)	3.2 V
Series Configuration Per Pack	1P52S / 166.4 V
Number of Battery Packs	5 * 1P52S (1P 260S)
Total Cells	260 cells (52 * 5)
Energy Per Pack	52.2 kWh
Cell Cycle Life	≥6,000 cycles @ 70% SOH
Expected System Life	10 years (typical C&I duty)
THERMAL MANAGEMENT	
Cooling Type	Liquid cooling - Integrated vertical plates between cells
Chiller Capacity	5 kW (nominal cooling power)
Coolant Type	Water-Glycol
Coolant Operating Range	-10°C ~ 55°C (ambient)
Battery Operating Temperature	-10°C to +55°C (optimal 10-45°C)
Temperature Monitoring	Distributed thermistors per pack + chiller feedback
Coolant Circulation	Centralised loop distributing to all 5 packs
PHYSICAL	
Product Dimensions (W × D × H)	980 × 1330 × 2251.5 mm
Cabinet Weight	≈2.5t
Battery Pack Weight	<300kg
Chiller Unit Weight	≈100 kg
IP Rating	IP65 Battery compartment/ IP54 Cabinet
Altitude	≤2000 m (derating required above)
BMS & SAFETY	
BMS	Integrated two-level BMS for pack and system monitoring and protection
Protection Functions	Over-voltage, under-voltage, over-current, short-circuit, over-temperature and under-temperature protection
Emergency Stop	Integrated emergency shutdown / E-stop
Fire Protection	Integrated fire detection and three-tier fire suppression - pack, cluster & cabinet level
STANDARDS & COMPLIANCE	
IEC 61000	Electromagnetic compatibility (EMC)
IEC 62477	Safety of power electronic converter systems (PCS)
IEC 62619	Safety of secondary lithium-ion cells & batteries
WARRANTY & SUPPORT	
Warranty	5-year battery · 12–24 months balance-of-system · 3-year PCS
Support	24/7 technical support · remote diagnostics · on-site ≤ 48 h (critical faults)

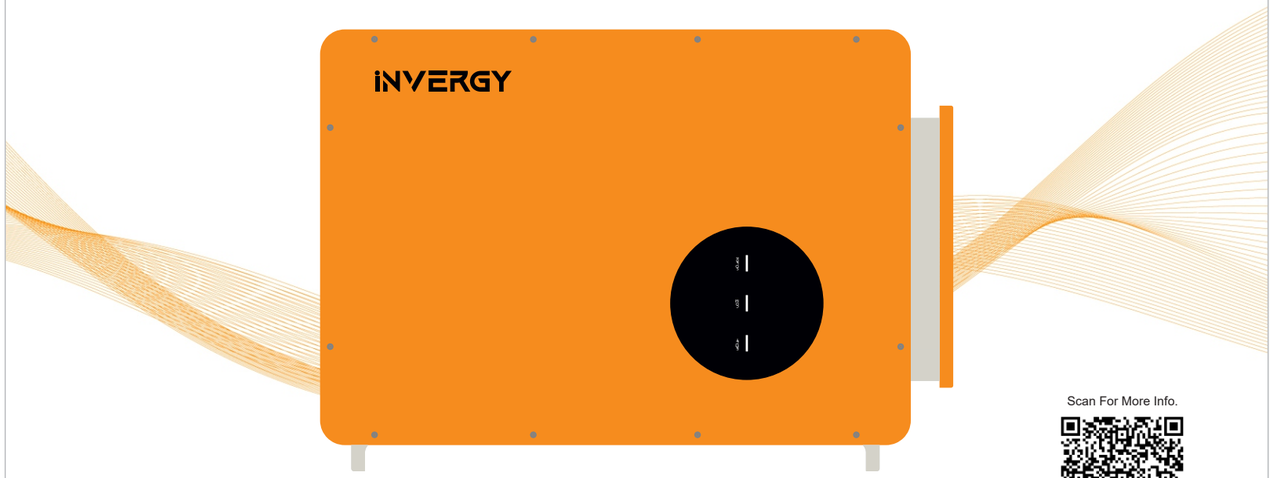
Applications: Peak shaving | Load shifting | Backup power (UPS) | Grid support | Renewable integration | Industrial facilities

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UTILITY SOLUTIONS



THREE PHASE INVERTERS 350kW



INV 350 TP

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Key Features:

- ABUS to enhance communication stability and reduce cable costs
- Designed to operate in challenging global environmental conditions
- Secured and reliable remote firmware upgrade simplifying long-term operation.
- High operation capability in weak grid
- Maximizing yield by leading conversion efficiency > 99%
- Compatible with max. 500mm² AC cables
- Smart DC connector disconnection
- Night and day time reactive power control.
- 75A per MPPT, compatible with high current PV modules.
- Smart I-V Curve tracing for easy diagnostics.
- Smart self-cleaning fans.
- DC connector and AC terminal temperature detection
- Anti-PID solution to mitigate PV module degradation.

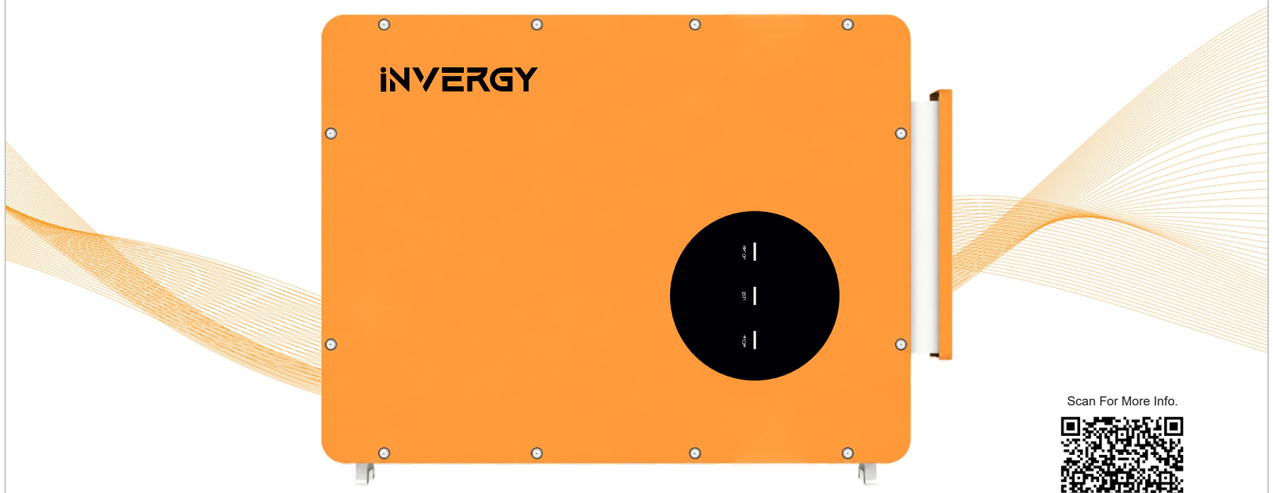
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Model	INV 350 TP
Input(DC)	
Max. Input Voltage	1500V
MPP Voltage Range / Rated Input Voltage	500V-1500V/1080V
Min. Input Voltage	500V
Startup Input Voltage	550V
Max. Operating Input Current Per MPP	75A
Max. Short Circuit Current Per MPP	113A
No. of Independent MPPT Inputs / Strings Per MPPT Input	6/5
Output(AC)	
AC Output Power	352 KVA @ 40 °C*/ 345 KVA @ 45 °C*/ 325 KVA @ 50 °C*
AC Nominal Voltage	800V
AC Voltage Range	640V - 920V
AC Grid Frequency / Range	50/60 Hz (+/- 10%) 60Hz /55Hz - 65Hz
Max. Output Current	254.0A
Adjustable Power factor Range	0.8 leading - 0.8 lagging
Feed-in Phases	3/3-PE
THD	< 3%
Efficiency	
Max. Efficiency/European Efficiency	99.01%/ 98.52%
Efficiency & Protection	
Smart DC Switch	Yes
AC /DC Temperature Detection	Yes
Anti-islanding Protection	Yes
AC Over Current Protection	Yes
DC Reverse-polarity Protection	Yes
AC Short Circuit Protection	Yes
PV String Monitoring	Yes
DC Surge Protection	Type II
AC Surge Protection	Type II
Residual Current Monitoring Unit (RCMU)	Yes
Ground Fault Monitoring	Yes
Grid Monitoring	Yes
Anti-PID	Optional
General Data	
Dimensions (W/H/ D)	1,158/760/382mm
Weight	≤ 117.0 kg
Operating Temperature Range	-30°C~60°C
Self-Consumption (At Night)	<5W
Topology	Non-isolated
Cooling Concept	Smart forced cooling
Protection Degree	IP66
Relative Humidity	0~100%(non-condensing)
Max. Operating Altitude	5000m (> 4000m with derating)
Features	
DC Connector	DC Plug-in connector
AC Connector	OT / DT Terminal (Max.500mm2)
Display	LED, Bluetooth + APP
USB	Yes
Communication	RS485/ABUS
Country of Manufacture	India
Compliance	
Certificates and Approvals (More Available On Request)	IEC62109-1/2,IEC61727,IEC62116,IEC61683,IEC60068,EN50549-2

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THREE PHASE INVERTERS
510kW



INV 510 TP

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Key Features:

- PLC To Enhance Communication Stability And Reduce Cable Costs
- Designed To Operate In Challenging Global Environmental Conditions With IP66 & C5-M Protection
- Bluetooth + App Connectivity For Easy Commissioning And Monitoring
- Grid Forming Support To Stabilize Frequency And Voltage In Weak Grid
- Maximizing Yield By Leading Conversion Efficiency > 99.1%
- Smart Forced Cooling For Reliable Thermal Management
- Smart Dc Connector Disconnection
- Night And Day Time Reactive Power Control
- 105A Per MPPT, Compatible With High Current Pv Modules
- Smart I-V Curve Tracing For Easy Diagnostics
- Compatible With Max. 500mm² AC Cables
- Dc Connector And AC Terminal Temperature Detection
- Anti-pid Solution To Mitigate PV Module Degradation

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Model	INV 510 TP
Input(DC)	
Max. Input Voltage	1500V
MPP Voltage Range / Rated Input Voltage	500V - 1500V / 1200V
Min. Input Voltage	500V
Initial. feed-in voltage	550V
Max. operating input current	105A
Max. short circuit current	180A
No. of independent MPPT inputs / strings per MPPT Input	6/6
Output(AC)	
AC Output Power	510 kVA @ 30 ℃ / 465 kVA @ 40 ℃ / 410 kVA @ 50 ℃
AC Nominal Voltage	1000V
AC Voltage Range	800V - 1150V
AC Grid Frequency / Range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz
Max. Output Current	294.4 A
Adjustable Power factor Range	0.8 leading - 0.8 lagging
Feed-in Phases	3/3-PE
Harmonic distortion (THD) at rated output	< 1%
Efficiency	
Max. Efficiency/European Efficiency	99.1 % / 98.8 %
Protection	
DC switch	Yes
Anti-islanding Protection	Yes
AC Over Current Protection	Yes
DC reverse connection protection	Yes
AC Short Circuit Protection	Yes
PV String Monitoring	Yes
DC Surge Protection	Type II
AC Surge Protection	Type II
Residual Current Monitoring Unit (RCMU)	Yes
Ground Fault Monitoring	Yes
Grid Monitoring	Yes
General Data	
Dimensions (W/H/ D)	1200 / 897 / 422 mm
Weight	≤ 135.0 kg
Operating Temperature Range	-30 ℃ ~ 60 ℃
Self-Consumption (At Night)	<5W
Topology	Non-isolated
Cooling Concept	Smart forced cooling
Degree of protection	IP66
Max. permissible value for relative humidity	0 - 100 % (non-condensing)
Max. Operating Altitude	5000m (> 4000m with derating)
Features	
DC Connector	DC Plug-in connector
AC Connector	OT / DT Terminal (Max.500mm²)
Display	LED, Bluetooth + APP
USB	Yes
Communication	RS485 / PLC
Compliance	
Certificates and Approvals (More Available On Request)	IEC 62109, IEC 61727, IEC 62116, IEC 61683, EN 50549-2, IEC60947-2

*Specifications and details for this 510kW inverter are tentative and subject to confirmation prior to final release.

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i-TANK PRO MAX

LIQUID-COOLED UTILITY ENERGY STORAGE SYSTEM

210 kW Power Rating | **418 kWh** Energy Capacity



418 kWh Battery Energy Storage Cabinet

Scan For More Info.

Key Features:

- Long-life LFP Cells — ≥6,000 Cycles @ 70% SOH, 10-year Design Life
- Comprehensive Protection — Over/under-voltage, Over-current, Short-circuit And Temperature Protection With E-stop
- Integrated Fire Protection — Cabinet-Level Aerosol + Water-Based Fire Suppression Interface
- Advanced Liquid Cooling — 8 kW Chiller Capacity for Efficient Battery Temperature Management
- All-in-One Cabinet — Integrated Battery Packs, Two-Level BMS, PCS and Three-Tier Fire Suppression in a Single Unit.
- Flexible Operating Modes — Grid-Independent, Standalone (Islanding) & Backup Operation Supported

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TECHNICAL PARAMETERS	
SYSTEM PARAMETERS	
Energy Capacity	418 kWh
Nominal System Voltage	1331.2 V DC
Voltage Range	1102 V - 1500 V
Rated Capacity	314 Ah
Power Rating (Charge / Discharge)	210 kW @800V AC Output
Round-trip Efficiency	≥90%
System Topology	PCS-based
Auxillary Power Consumption	5.5kW
Operating Modes	Grid-independent / Standalone (islanding mode) / Backup (as applicable)
BATTERY PARAMETERS	
Cell Type	Prismatic LFP
Cell Capacity	314 Ah
Cell Voltage (Nominal)	3.2 V
Series Configuration Per Pack	1P52S / 166.4 V
Number of Battery Packs	8 * 1P52S (1P 416S)
Total Cells	416 cells (52*8)
Energy Per Pack	52.25 kWh
Cell Cycle Life	≥6,000 cycles @ 70% SOH
Expected System Life	10 years (typical C&I duty)
THERMAL MANAGEMENT	
Cooling Type	Liquid cooling
Chiller Capacity	8 kW
Coolant Type	R513A
Coolant Operating Range	-30°C ~ 55°C (ambient)
Battery Operating Temperature	-10°C to +55°C (optimal 10-45°C)
Temperature Monitoring	Cell voltage/temp monitoring; cooling system monitoring described
Coolant Circulation	Main+branch pipeline architecture
PHYSICAL	
Product Dimensions (W × D × H)	1400 × 1450 × 2400 mm (without PCS)
Cabinet Weight	≈3.6 t
Battery Pack Weight	<350kg
Chiller Unit Weight	≈ 133 kg
IP Rating	IP54
Altitude	≤4000 m (derating required above 2000 m)
BMS & SAFETY	
BMS	Integrated two-level BMS for pack and system monitoring and protection
Protection Functions	Over-voltage, under-voltage, over-current, short-circuit, over-temperature and under-temperature protection
Emergency Stop	Integrated emergency shutdown / E-stop
Fire Protection	Cabin-level aerosol + water-based fire suppression interface
STANDARDS & COMPLIANCE	
IEC 61000	Electromagnetic compatibility (EMC)
IEC 62477	Safety of power electronic converter systems (PCS)
IEC 62619	Safety of secondary lithium-ion cells & batteries
WARRANTY & SUPPORT	
Warranty	5-year battery · 12–24 months balance-of-system · 3-year PCS
Support	24/7 technical support · remote diagnostics · on-site ≤ 48 h (critical faults)

Applications: Peak shaving | Load shifting | Backup power (UPS) | Grid support | Renewable integration | Industrial facilities

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BESS-UTILITY

Battery Energy Storage Solution

5 MWh
Energy Capacity

Available Configurations
3.34 MWh | 4.17 MWh | 5.015 Mwh



Scan For More Info.

INV-C5015-104S

Key Features:

- Long-life LFP Cells — ≥6,000 Cycles @ 70% SOH
- Advanced Liquid Cooling — 60 kW Chiller Cooling Capacity for Efficient Thermal Management
- Multi-Layer Fire Safety — Heat & Smoke Detection with Automatic Aerosol-Based Fire Suppression and Optional Water-Based System
- Advanced BMS & Protection — Pack BMU, Rack RBMS & Master BMS with OV/UV/OC/OT Protection
- Robust 20-ft Containerized System — IP55 Protection with Fire-Resistant Container Enclosure
- Grid-tied & Standalone Operation — Grid-connected, Off-grid And Backup Modes Supported

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Model	INV-C5015-104S
Battery Cell & Module Specifications	
Cell Type	Prismatic
Cell Specification	3.2V, 314Ah
Battery Module Configuration	1P1045
Module Nominal Voltage	332.8V
Module Energy	104.5 kWh
Module Protection Level	IP67
Battery Rack & System Configuration	
Modules per Rack	4
Rack Configuration	1P416S
Rack Nominal Voltage	1331.2 V
Rack Capacity	314 Ah
Rack Energy	417.9 kWh
Number of Racks	12
Overall System Configuration	1P416S12P
Total Number of Cells	4,992
Rated Energy Capacity	5015 kWh
Rated Capacity	3768 Ah
Rated Voltage	1331.2 V
Operating Voltage Range	1164.8 V – 1497.6 V
Typical Charge / Discharge Duration	2–4 Hours
Typical Max C-rate	0.25C - 0.5C
Typical DOD	90%
Usable Energy at 90% DOD	4514 kWh
RTE	>85%
Cell cycle life	≥6,000 cycles @ 70% SOH
Expected system life	10 years
Operating modes	Grid-connected / Off-grid / Backup (as applicable)
Thermal Management & Auxiliary	
Cooling Method	Active Liquid Cooling
Coolant Type	50% Ethylene Glycol + 50% Water
Thermal Management	60 kW Chiller Cooling Capacity
Auxiliary Power Consumption (Max)	50 kVA / 45KW
Protection, Safety & Communication	
Battery Management System	Pack BMU + Rack RBMS + Master BMS
Protection Features	OV / UV / OC / OT Protection
Fire Detection	Heat and Smoke Sensors
Gas Detection	Yes
Fire Suppression	Automatic Aerosol-based System
Optional Fire Suppression	Water-based System
Communication Protocols	Modbus TCP/IP
Container & Environmental Specifications	
Container Type	Standard 20ft High Cube
Container Dimensions (L × W × H)	6058 × 2438 × 2896 mm
Total System Weight	45 ± 1.5 Tons
Container Protection Level	IP55 (Excl. TMS)
Enclosure Material	Fire-resistant Container
Surface Coating	C4-H
Operating Ambient Temperature	-10°C to +55°C
Maximum Altitude	≤ 3000 m with derating above 2000 m

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COMMUNICATION DEVICES

4G PV STICK LOGGER

Wireless Monitoring & Communication for Multiple Inverters.

Reliable 4G Connectivity | Plug & Play | Remote Monitoring



Key Features:

- High-speed LTE Cat 1 bis connectivity
- Support of LTE FDD Band 1 / 3 / 5 / 8 and LTE TDD Band 34 / 38 / 39 / 40 / 41
- Support of manufacturer specific inverter protocols and Modbus RTU
- Support of MQTT, TCP, UDP, HTTP and HTTPS communication protocols
- Secure data communication with SSL/TLS and device authentication
- Protection against reverse polarity and over voltage
- Automatic network reconnection and data recovery for uninterrupted communication
- Reliable cloud connectivity for remote monitoring and data transmission
- Designed for stable communication in continuous solar PV operation

MAKE IN INDIA | GSM MODEL

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TECHNICAL SPECIFICATIONS

Parameter	Specification
Type Designation	INVG4G
Cellular Communication	LTE Cat 1 bis
Inverter Communication	RS485
Inverter Connector	GX16 Aviation Connector
Inverter Protocol	Manufacturer-specific; Modbus RTU optional
Cloud Protocols	MQTT / TCP / UDP / HTTP / HTTPS
Input Voltage	5–37 VDC
Power Consumption	Low-power industrial design
Electrical Protection	Reverse Polarity / Over-Voltage Protection
Data Buffering	Local buffering with automatic synchronization
Remote Management	Configuration / Parameter Changes / Diagnostics / Remote Reboot
Firmware Update	FOTA
LED Indicators	Power / Network / Data
Operating Temperature	-20°C to +70°C*
Storage Temperature	-40°C to +85°C*
Relative Humidity	Up to 95% RH, non-condensing
Installation / Mounting	Plug-and-play / External Stick Logger

*Typical industrial operating limits. Final values depend on production configuration.

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4G PV STICK LOGGER WITH METER MONITORING

Wireless Monitoring & Communication for Inverters and Energy Meters.



Key Features:

- Real-time acquisition of inverter and meter data
- Automatic network reconnection and data synchronization
- Remote configuration, diagnostics, parameter changes and reboot
- Communication and system watchdogs for reliable operation

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TECHNICAL SPECIFICATIONS

Parameter	Specification
Type Designation	INVG4GDM
Application	Solar Inverter & Energy Meter Monitoring
Cellular Communication	LTE Cat 1 bis
LTE FDD Bands	Band 1 / 3 / 5 / 8
LTE TDD Bands	Band 34 / 38 / 39 / 40 / 41
Inverter Communication	RS485
Inverter Connector	GX16 Aviation Connector
Baud Rate	Configurable
Inverter Protocol	Manufacturer-specific; Modbus RTU optional
Meter Interface 1	RS485
Meter Interface 2	RS232
Meter Protocol	DLMS/COSEM; Proprietary Protocols Supported
Cloud Protocols	MQTT / TCP / UDP / HTTP / HTTPS
Security	SSL/TLS / Secure Authentication / Device Authentication
Input Voltage	5–37 VDC
Power Consumption	Low-power industrial design
Electrical Protection	Reverse Polarity / Over-Voltage Protection
Firmware Update	FOTA
LED Indicators	Power / Network / Data
Operating Temperature	-20°C to +70°C*
Storage Temperature	-40°C to +85°C*
Relative Humidity	Up to 95% RH, non-condensing

*Typical industrial operating limits. Final values depend on production configuration.

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WIFI 2.4 GHZ SOLAR DATA LOGGER

Wireless Monitoring & Communication for Solar Inverters



Key Features:

- Real-time acquisition of inverter data over 2.4 GHz WiFi
- Automatic network reconnection and data synchronization
- Local data buffering and data recovery during network interruptions
- Remote configuration, diagnostics, parameter changes and device management

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TECHNICAL SPECIFICATIONS

Parameter	Specification
Type Designation	INVWIFI
Application	Solar Inverter Monitoring
Wireless Communication	WiFi 2.4 GHz
WiFi Standard	IEEE 802.11 b/g/n
WiFi Frequency	2.412–2.484 GHz
WiFi Antenna	Internal / External
Inverter Communication	RS485
Baud Rate	1200–115200 bps, Configurable
Inverter Protocol	Manufacturer-specific / Modbus RTU
Data Transmission	Configurable
Data Storage	Flash Memory
Configuration	Web / APP / Local Interface
Data Recovery	Breakpoint / Data Resuming
Firmware Update	Remote / Local
Input Voltage	5–12 VDC
Power Consumption	Low-power design
LED Indicators	Power / Network / Data
Operating Temperature	-30°C to +70°C*
Operating Humidity	10–90% RH, non-condensing
Storage Temperature	-40°C to +90°C*
Installation / Mounting	Plug-and-play / External Stick Logger

*Typical industrial operating limits. Final values depend on production configuration.

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A signifcant presence in India’s Solar Energy Ecosystem

In the rapidly evolving landscape of India’s renewable energy sector, INVERGY has emerged as a pivotal force, particularly known for bridging the gap between high-end innovation and practical, localized energy solutions. INVERGY is more than just a hardware provider; it is an ecosystem enabler. By integrating intelligent energy management with durable hardware, the brand is helping India transition from being a consumer of solar energy to a master of solar energy management.



Notes