

Infinisolar

HYBRID SOLAR INVERTER

EU118 KL1-G2

Series



CORE ADVANTAGE

3~10KW | Single Phase | IP66

Hybrid Energy Management

Integrates solar, battery, generator & grid for efficient use.

Robust Outdoor Protection

IP66 design for reliable outdoor installation.

Flexible Parallel Expansion

Up to 9 units in parallel for on/off-grid systems.

AC-Coupling Function

Works with existing solar systems for quick upgrades.

Smart Control & Monitoring

4.3" touch display + WiFi for easy operation.

Fast Charge & Discharge

Max. 210A charge/discharge with 6 time period settings.

TECHNICAL SPECIFICATIONS



MODEL	EU118-3KL1-G2	EU118-3.6KL1-G2	EU118-4KL1-G2	EU118-5KL1-G2	EU118-6KL1-G2	EU118-7KL1-G2	EU118-7.6KL1-G2	EU118-8KL1-G2	EU118-10KL1-G2
BATTERY INPUT DATA									
Battery type	Lead-acid battery / Lithium battery								
Battery voltage	48V								
Charging curve	4-stage adaptive with maintenance/Equalization								
Maximum charging/discharging power	3000W	3600W	4000W	5000W	6000W	7000W	7600W	8000W	10000W
Maximum charging/discharging current	75A	90A	100A	120A	135A	175A	190A	190A	210A
PV STRING INPUT DATA									
Max. DC Input Power	6000W	7200W	8000W	10000W	12000W	14000W	15200W	16000W	20000W
Maximum DC voltage	550V								
Start-up Voltage	125V								
Full Load DC Voltage Range	167-500V	200-500V	153-500V	192-500V	230-500V	218-500V	238-500V	250-500V	278-500V
Minimum voltage for grid connection	150V								
Maximum input current	18A+18A	18A+18A	26A+26A	26A+26A	26A+26A	32A+32A	32A+32A	32A+32A	36A+36A
No.of MPP Trackers	2	2	2	2	2	2	2	2	2
Input terminal type	H4/MC4								
AC INPUT/OUTPUT DATA									
Rated AC Input/Output Active Power	3000W	3600W	4000W	5000W	6000W	7000W	7600W	8000W	10000W
Max. AC Input/Output Apparent Power	3300VA	3960VA	4400VA	5500VA	6600VA	7700VA	8360VA	8800VA	11000VA
Rated Input/Output Voltage/Range	220/230/240VAC								
Rated Input/Output Grid Frequency/Range	60Hz±5Hz/ 50Hz±5Hz								
Rated output power factor	1								
Power Factor Adjustment Range	0.8 leading to 0.8 lagging								
Total Harmonics Current Distortion (THDi)	<3%								
Grid Type	Single phase								
DC Current Injection	0.5%								
EFFICIENCY									
Max. Efficiency	97.5%								
Euro Efficiency	96.5%								
MPPT Efficiency	>99%								
PROTECTION									
Integrated	Islanding protection, Output overcurrent protection, Output overvoltage protection, DC switch rating for each MPPT, Grid monitoring, Output over current protection, Gird overvoltage protection-varistor, Integrated all-pole sensitive leakage current, ISO monitoring, over temperature protection.								
Surge Protection	AC Type III								
Overvoltage Category	AC Type III								
GENERAL DATA									
Operating Temperature Range (°C)	-25°C~+60°C, >45°C Derating								
Cooling	Intelligent Fan								
Noise (dB)	≤50dB								
Altitude	3000m, >3000mDerating								
Topology	Battery-side transformer isolation, PV-side non-transformer isolation								
Communication	USB/ WiFi/ Enternet(optional)								
Display	4.3-inch touch screen								
Protection Degree	IP66								
MECHANICAL SPECIFICATIONS									
Machine Dimension (W*H*D)(mm)	372*564*241								
Package Dimension (W*H*D)(mm)	479*652*363								
N.W(kg)	22								
G.W(kg)	25								
Warranty	5 years								
CERTIFICATION & STANDARDS									

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HYBRID SOLAR INVERTER

EU118 KL3 Series



CORE ADVANTAGE

5~16KW | Three Phase | 380VAC | IP66

All-Scenario Hybrid Power

- Max. 16pcs parallel for on-grid and off-grid operation
- AC coupling upgrade for existing solar systems

High-Level Safety Design

- 48V low-voltage battery with transformer isolation
- IP66 waterproof and dustproof for outdoor use

Powerful Three-Phase Output

- 100% unbalanced three-phase output for stable loads
- 320A high-current charge/ discharge for instant power demand

Smart Energy Management

- 6 configurable charge/discharge time segments for peak shaving
- Built-in WiFi monitoring for real-time system control

Flexible Multi-Energy Input

- Supports diesel generator storage for uninterrupted power
- CT connection enables anti-backflow protection

TECHNICAL SPECIFICATIONS



MODEL	EU118-5KL3	EU118-6.5KL3	EU118-8KL3	EU118-10KL3	EU118-12KL3	EU118-13KL3	EU118-14.2KL3	EU118-15KL3	EU118-16KL3
Rated power	5000W	6500W	8000W	10000W	12000W	13000W	14200W	15000W	16000W
BATTERY INPUT DATA									
Battery type	Lead-acid battery / Lithium battery								
Battery voltage	48V								
Charging curve	4-stage adaptive with maintenance/Equalization								
Max. Charging/Discharging Power	5000W	6500W	8000W	10000W	12000W	13000W	14200W	15000W	16000W
Max. Charge/Discharge Current	120A	150A	190A	210A	240A	260A	280A	300A	320A
PV STRING INPUT DATA									
Max. DC Input Power	10000W	13000W	16000W	20000W	24000W	26000W	28400W	30000W	32000W
Maximum DC voltage	800V								
Minimum voltage for grid connection	160V								
Full Load DC Voltage Range	278-650V	361-650V	400-650V	357-650V	429-650V	464-650V	507-650V	536-650V	571-650V
MPPT voltage range	200~650V								
Maximum input current	18A+18A		20A+20A	36A+20A					
No.of MPPT tracker	2								
Strings per MPPT tracker	1/1			2/1					
AC INPUT/OUTPUT DATA									
Rated AC Input/ Output Power	5000W	6500W	8000W	10000W	12000W	13000W	14200W	15000W	16000W
Max AC Input/ Output Power	5500VA	7150VA	8800VA	11000VA	13200VA	14300VA	15620VA	16500VA	17600VA
Max. AC Input Power (grid to load)	10000W	13000W	16000W	20000W	24000W	26000W	28400W	30000W	32000W
Power Factor Adjustment Range	0.8 leading to 0.8 lagging								
Rated Input/Output Voltage	220/380,230/400Vac								
Rated Input/Output Grid Frequency	60Hz±5Hz/50Hz±5Hz								
Grid Type	Three Phase								
DC Current Injection	0.5%								
EFFICIENCY									
Max. Efficiency	97.6%					97.5%			
Euro Efficiency	97.0%					96.5%			
MPPT Efficiency	99.5%								
PROTECTION									
Integrated	Islanding protection, Output overcurrent protection, Output overvoltage protection, DC switch rating for each MPPT, Grid monitoring, Output over current protection, Grid overvoltage protection-varistor, Integrated all-pole sensitive leakage current, ISO monitoring, over temperature protection.								
GENERAL DATA									
Operating Temperature Range	-25°C to +60°C, >45°C Derating								
Cooling	Intelligent Fan								
Noise	≤55dB								
Communication with BMS	RS485/CAN								
Machine Dimension (W*H*D)(mm)	472*684*311 (excluding connectors and racks)								
Package Dimension (W*H*D)(mm)	567*816*424								
N.W(kg)	38 (Excluding Connectors and Brackets)								
G.W(kg)	42								
Protection Degree	IP66								
Installation Style	Wall-mounted								
Warranty	5 years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy								
CERTIFICATION & STANDARDS									

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CORE ADVANTAGE

18~25KW | Three Phase | 380VAC | IP66 | WiFi

Superior Load Capacity

Effortlessly powers pumps, motors, and other high-wattage appliances with stable and reliable continuous output.

Powerful Parallel Scalability

Parallel up to 16 units in off-grid mode, scale system capacity as needed to handle heavy loads with ease.

High-Power Energy Support

400A continuous charge/discharge, up to 50kW PV input

IP66-Rated Robust Protection

Defies water and dust, ensuring stable operation in the harshest environments.

Intelligent Power Management

Supports 6 Programmable Time-of-Use (ToU) Periods.

Large Touchscreen Display

Intuitive operation with versatile connectivity (GPRS, Wi-Fi, Bluetooth, RS485) for smart, centralized system control.

TECHNICAL SPECIFICATIONS

MODEL	EU118-18KL3	EU118-20KL3	EU118-25KL3
Rated power	18000W	20000W	25000W
BATTERY INPUT DATA			
Battery type	Lead-acid battery / Lithium battery		
Battery voltage	48V		
Charging curve	4-stage adaptive with maintenance/Equalization		
Max. Charging/ Discharging Power	18000W	20000W	25000W
Max. Charge/ Discharge Current	330A	350A	400A
PV STRING INPUT DATA			
Max. DC Input Power	36000W	40000W	50000W
Maximum DC voltage	800V		
Minimum voltage for grid connection	160V		
Full Load DC Voltage Range	500V~650V	555V~650V	625V~650V
MPPT voltage range	200~650V		
Maximum input current	36A+36A	36A+36A	40A+40A
No.of MPPT tracker	2		
Strings per MPPT tracker	2		
AC INPUT/OUTPUT DATA			
Rated AC Input/ Output Power	18000W	20000W	25000W
Max AC Input/ Output Power	19800VA	22000VA	27500VA
Max. AC Input Power (grid to load)	36000W	40000W	50000W
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Rated Input/Output Voltage	220/380,230/400Vac		
Rated Input/Output Grid Frequency	60Hz±5Hz/50Hz±5Hz		
Grid Type	Three Phase		
DC Current Injection	0.5%		
EFFICIENCY			
Max. Efficiency	97.5%		
Euro Efficiency	96.5%		
MPPT Efficiency	99.5%		
PROTECTION			
Integrated	Anti-islanding Protection, Output Overcurrent Protection, Output Overvoltage Protection, PV Reverse Polarity Protection, PV Reverse Polarity Protection (Optional), Grounding Fault Detection, Integrated Residual Current Monitoring Unit (RCMU)		
GENERAL DATA			
Operating Temperature Range	-25°C to +60°C, >45°C Derating		
Cooling	Intelligent Fan Cooling		
Noise	≤60dB		
Communication	USB/ WI-FI/ Ethernet (optional)		
Communication with BMS	RS485/CAN		
Machine Dimension (W*H*D)(mm)	446*740*261 (excluding connectors and racks)		
Package Dimension (W*H*D)(mm)	/		
N.W(kg)	50		
G.W(kg)	/		
Protection Degree	IP66		
Installation Style	Wall-mounted		
Warranty	5 years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy		
CERTIFICATION & STANDARDS			

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LITHIUM IRON PHOSPHATE (LIFEPO4) BATTERY

INF-LFP Series



CORE ADVANTAGE

High Energy Capacity

Scalable from 2.56kWh to 30.72kWh for diverse needs

Modular & Expandable

Connect up to 15 units inparallel with ease

Ultimate Installation Flexibility

Wall, stack, rack, or wheeled floor—fit your space, your way

Smart Connectivity

Built-in WiFi/Bluetooth forreal-time remote monitoring

High Power, Stable Performance

Consistent energyoutput for residential and industrial systems

Seamless Integration

Supports CAN & RS485communication with major inverters

TECHNICAL SPECIFICATIONS



Technical Data		INF-LFP-24100	INF-LFP-24200	INF-LFP-24300	INF-LFP-48100	INF-LFP-48200	INF-LFP-48300	INF-LFP-48320	INF-LFP-48410	INF-LFP-48600
Nominal Voltage		25.6V			51.2V					
Nominal Capacity		100Ah	200Ah	300Ah	100Ah	200Ah	300Ah	320Ah	410Ah	600Ah
Nominal energy		2560Wh	5120Wh	7680Wh	5120Wh	10240Wh	15360Wh	16384Wh	20992Wh	30720Wh
Max. output power		2.5KW	3.5KW	5KW	5KW	7.5KW	10KW	10KW	10KW	10KW
Life Cycles		≥6000(25°C+3°C)								
Recommended Charge Voltage		29.2V			58.4V					
Recommended Charge Current		20A	40A	60A	20A	40A	60A	60A	80A	120A
End Of Discharge Voltage		22V			44V					
Standard Method	Charge	20A	40A	60A	20A	40A	60A	60A	80A	120A
	Discharge	50A	100A	150A	50A	100A	150A	150A	150A	150A
Maximum Continuous Current	Charge	100A	150A	200A	100A	150A	200A	200A	200A	200A
	Discharge	100A	150A	200A	100A	150A	200A	200A	200A	200A
BMS Cut-Off Voltage	Charge	29.2V (3.65V/Cell)			58.4V (3.65V/Cell)					
	Discharge	22.0V (2.75V/Cell)			44.0V (2.75V/Cell)					
Temperature	Charge	0~50°C								
	Discharge	-20~55°C								
Storage Temperature		-5~35°C								
Shipment Voltage		≥25.6V			≥51.2V					
Safety Function		Over-charge, Over-discharge, Over-current, Low/High-temperature, Short-circuit Protections								
Module Parallel		Up to 15 units								
Communication		CAN2.0/RS232/RS485								
IP Protection level		IP21								
Case Material		SPCC								
Installation Mode		Wall-mounted, Stacked-mounted, Rack-mounted(optional)					Vertical-mounted			
Machine Dimension (W*H*D) (mm)		442*485.5*177	442*486.5*250	442*495*230	442*625.5*177	442*686.5*250	490*923*265		600*1093*264	744*1093*264
Package Dimension (W*H*D) (mm)	carton box	547*227*557	547*300*557	530*305*615	557*227*688	560*305*750	/		/	/
	wooden box	/	/	/	/	569*405*759	1000*565*450		1194*701*440	1225*870*400
N.W (kg)		27	45	58	45	81	117		170	208
G.W (kg)	carton box	29	49	71	79	86	/		/	/
	wooden box	/	/	/	/	97	137		194	234
* Variations in dimensions and weights may occur due to production batches.										
Operating altitude		≤4000m								
Charge Retention And Capacity Recovery Capability		Standard charge the battery, and then put aside at room temperature for 28d or 55°C for 7d, Charge retention rate≥90%, Recovery rate of charge≥90%								
Warranty		5 years								
Certification & Standards		CE-EMC (EN 61000-6-3: 2007+A1: 2011+AC: 2012 EN IEC 61000-6-1: 2019) IEC62619-1:2018; IEC62619:2022; IEC62619:2017; UN38.3/ MSDS								

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