TANDHAN POWER

JEWEL MASS

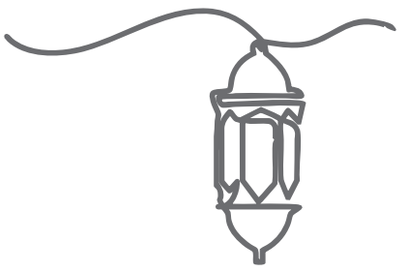
LITHIUM ION BATTERY

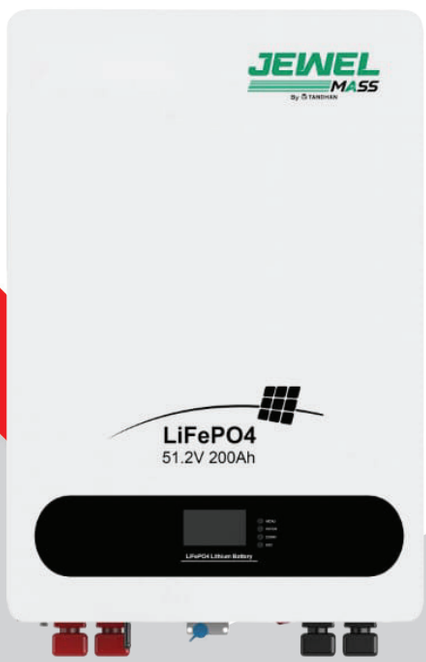
PRODUCT **DESCRIPTION**

The Jewel Mass Series offers a versatile and reliable power solution. Combine up to 15 units for energy capacities ranging from 2560Wh to 10240Wh. With WiFi Remote Monitoring, stay connected and in control. Whether it's wall mounted convenience, stacked-mounting (up to 5 units) for space efficiency, or rack-mounted for industrial power management, this series offers seamless adaptability.

PRODUCT **FEATURES**

- 3-in-1: Wall-mounted, Stacked-mounted, Rack-mounted(optional)
- Large capacity, high power output
- Safest lithium iron phosphate battery cell with high energy density
- Modular design: supports up to 15 units in parallel
- IP21 protection for both indoor use
- Support CAN & RS485 communication with mainstream inverters
- Local monitoring via LCD monitor
- Built-in WiFi Smart BMS Module





RANGE - JMB-24100 | JMB-24200
JMB-48100 | JMB-48200 | JMB-48300

TANDHAN POWER

PRODUCT **SPECIFICATIONS**

TECHNICAL DATA		JMB-24100	JMB-24200	JMB-48100	JMB-48200	JMB-48300
Nominal Voltage		25.6V		51.2V		
Nominal Capacity		100Ah	200Ah	100Ah	200Ah	300Ah
Nominal Energy		2560Wh	5120Wh	5120Wh	10240Wh	15360wh
Life Cycles		6000 cycles @ 80% DOD, 25°C				
Recommended Charge Voltage		29.2V		58.4V		
Recommended Charge Current 20A 40A		20A	40A	20A	40A	60A
End Of Discharge Voltage		22V		44V		
Standard Method	Charge	20A	40A	20A	40A	60A
	Discharge	50A	100A	50A	100A	150A
Maximum Continuous Current	Charge	100A	150A	100A	150A	200A
	Discharge	100A	150A	100A	150A	200A
BMS Cut-Off Voltage	Charge	29.2 V (3.65V/Cell)		58.4 V (3.65V/Cell)		
	Discharge	22.0V (2s) (2.75V/Cell)		44.0V (2.75V/Cell)		
Temperature	Charge	0 ~ 45°C				
	Discharge	'-10 ~ 55°C				
Storage Temperature		'-5~35°C				
Shipment Voltage		≥25.6V		≥51.2V		
Safety Function		Over-charge, Over-discharge, Over-current, Low/High-temprature, short circuit protection				
Module Paralle		Up to 15 units				
Communication		CAN2.0/RS232/RS485				
Case Material		SPPC				
Machine Dimension (H*W*D) (mm)		485.5*442*177	486.5*442*250	625.5*442*177	686.5*442*250	923*490*265
Package Dimension	Carton box	557*547*227	557*547*300	688*557*227	non	
(W*H*D) (mm)	Wooden box	555*565*340	555*565*410	696*565*335	759*569*391	100*565*450
N.W (kg)		27	44	45	80	117
G.W (kg)	Carton box	30	48	48	non	
	Wooden box	40	57	58	97	137
*** VARIATIONS IN DIMENSIONS AND WEIGHTS MAY OCCUR DUE TO PRODUCTION BATCHES.**						
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				
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				

Note: Specifications and models subject to change without prior notice

TANDHAN POWER

JEWEL MASS

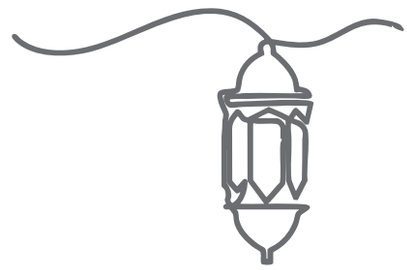
LITHIUM ION BATTERY- ECONOMY SERIES

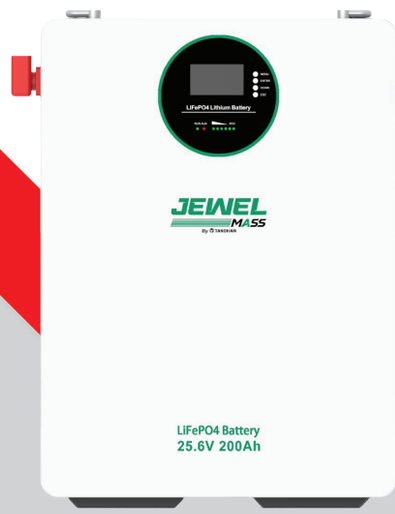
PRODUCT **DESCRIPTION**

The JMBE19 Series offers a versatile and reliable power solution. Combine up to 15 units for energy capacities ranging from 5120Wh to 15360Wh. With WiFi Remote Monitoring, stay connected and in control. It has excellent safety, high energy density, long lifetime, very nice temperature performance, green power newly of excellent safety and high reliability.

PRODUCT **FEATURES**

- 2-in-1: Wall-mounted, Floor-mounted.
- Large capacity, high power output.
- Safest lithium iron phosphate battery cell with high energy density.
- Modular design: supports up to 15 units in parallel.
- IP21 protection for both indoor use.
- Support CAN & RS485 communication with mainstream inverters.
- Local monitoring via LCD monitor.
- Built-in WiFi Smart BMS Module.





RANGE- JMBE19-24100 |JMBE19-24200
JMBE19-48100 | JMBE19-48200 | JMBE19-48300

TANDHAN POWER

PRODUCT **SPECIFICATIONS**

TECHNICAL DATA		JMBE19-24100	JMBE19-24200	JMBE19-48100	JMBE19-48200	JMBE19-48300
Nominal Voltage		25.6V		51.2V		
Nominal Capacity		100Ah	200Ah	100Ah	200Ah	300Ah
Nominal Energy		2560Wh	5120Wh	5120Wh	10240Wh	15360Wh
Max. Output Power		2.5KW	3.5KW	5KW	7.5KW	10KW
Life Cycles		4000 Cycles @ 80% DOD, 25°C				
Standard Charge Voltage		29.2V		58.4V		
Standard Charge Current		20A	40A	20A	40A	60
End Of Discharge Voltage		22V		44V		
Recommended Method	Charge	50A	100A	50A	100A	150A
	Discharge	50A	100A	50A	100A	150A
Maximum Continuous Current	Charge	100A	150A	100A	150A	200A
	Discharge	100A	150A	100A	150A	200A
BMS Cut-Off Voltage	Charge	29.2 V (3.65V/Cell)		58.4 V (3.65V/Cell)		
	Discharge	22.0V (2s) (2.75V/Cell)		44.0V (2.75V/Cell)		
Temperature	Charge	0 ~ 45°C				
	Discharge	-10 ~ 55°C				
Storage Temperature		-5~35°C				
Shipment Voltage		≥25.6V		≥51.2V		
Module Parallel		Up to 15 units				
Communication		CAN2.0/RS232/RS485				
Case Material		SPCC				
Machine Dimension (H*W*D) (mm)		505*442*200	603*442*200	603*442*200	663*442*225	663*442*225
Package Dimension	Carton box	595*280*560	690*280*560	690*280*560	/	/
(W*H*D) (mm)	Wooden box	/	/	/	760*405*570	985*405*600
N.W (kg		33	57	57	80	109
G.W (kg)	Carton box	35	60	60	/	/
	Wooden box	/	/	/	97	128
* Variations in dimensions and weights may occur due to production batches.						
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				
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				
Warranty		4Years				

TANDHAN POWER

JEWEL MASS

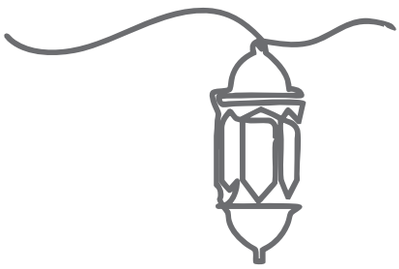
LITHIUM ION BATTERY- ECONOMY SERIES

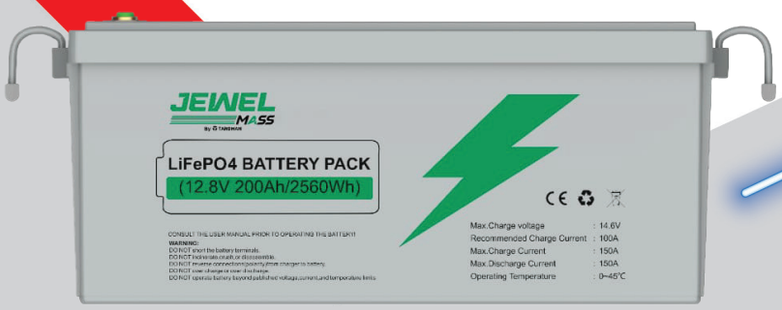
PRODUCT **DESCRIPTION**

The JMBE17 Series LiFePO4 battery is fit for E-mobility, Energy Storage System, Defense & Security, telecom outdoor applications,renewable energy systems, and other harsh environment applications. long lifetime, very nice temperature performance, green power newly of excellent safety and high reliability.

PRODUCT **FEATURES**

- 4000 cycles @ 80% DOD, 25 °C for effectively lower total of ownership cost.
- Safe, reliable and long life
- Support series or parallel connection
- Battery Management System (BMS) is incorporated against abuse.
- Superior charge/discharge efficiency
- Low maintenance batteries with stable chemistry.
- Extreme heat tolerance
- Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.
- Support Bluetooth and APP to view battery information (optional)





RANGE - JMBE17-12100 | JMBE17-12150 | JMBE17-12200

TANDHAN POWER

PRODUCT **SPECIFICATIONS**

TECHNICAL DATA		JMBE17-12100	JMBE17-12150	JMBE17-12200
Nominal Voltage		12.8V		
Nominal Capacity		100Ah	150Ah	200Ah
Nominal Energy		1280Wh	1920Wh	2560Wh
Max. Output Power		1.2KW	1.2KW	1.2KW
Life Cycles		4000 Cycles @ 80% DOD, 25°C		
Standard Charge Voltage		14.6V		
Standard Charge Current		20A	40A	
End Of Discharge Voltage		10V		
Recommended Method	Charge	20A	30A	40A
	Discharge	50A	75A	100A
Maximum Continuous Current	Charge	50A	75A	100A
	Discharge	100A	100A	100A
BMS Cut-Off Voltage	Charge	15.4 V (3.85V/Cell)		
	Discharge	9.2 V (2s) (2.3V/Cell)		
Temperature	Charge	0 ~ 45°C		
	Discharge	-10 ~ 55°C		
Storage Temperature		-5~35°C		
Shipment Voltage		≥12.8V		
Case Material		ABS+PC		
Machine Dimension (H*W*D) (mm)		339*185*218		502*186*243
Package Dimension (W*H*D) (mm)	Carton box	385*230*260		520*225*280
N.W (kg)	Carton box	12	17	21
G.W (kg)		13	18	22
* Variations in dimensions and weights may occur due to production batches.				
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		
Certification & Standards		CE-EMC (EN 61000-6-3+A1+AC EN IEC 61000-6-1); UN38.3/ MSDS		
Warranty		4Years		

TANDHAN POWER

JEWEL MASS

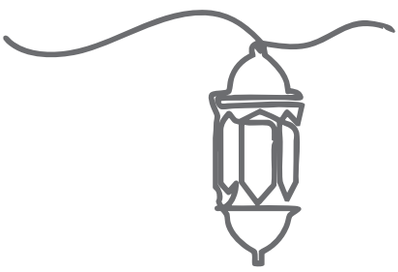
HIGH FREQUENCY **SOLAR INVERTER PRO SERIES**

PRODUCT **DESCRIPTION**

Jewel Mass 18 PRO Series is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support in portable size. Jewel Mass 18 PRO Series can run without battery. The Maximum PV input voltage can reach 400V/450V/500V, which can help customers make full use of solar energy.(For 1.6~6.2KW

PRODUCT **FEATURES**

- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built-in MPPT solar charge controller
- Wide PV input voltage range
- Can provide the power to the load without battery
- Combining solar system, AC utility, and battery power source to supply continuous power
- Cold start function
- Support RS485,CAN monitoring function
- Dual outputs for smart load management
- Can communicate with lithium batteries (CAN port), excluding the JMI 18PRO 2012 Model



RANGE - JMI 18PRO 2012 | JMI 18PRO 2524 | JMI 18PRO 3024
JMI 18PRO 3524 | JMI 18PRO 5548 | JMI 18PRO 6248

TANDHAN POWER

PRODUCT **SPECIFICATIONS**

JEWEL MASS 18 SOLAR INVERTER PRO SERIES						
Model	**JMI 18PRO 2012**	**JMI 18PRO 2524**	**JMI 18PRO 3024**	**JMI 18PRO 3524**	**JMI 18PRO 5548**	**JMI 18PRO 6248**
Default Battery System Voltage	12VDC	24VDC			48VDC	
INVERTER OUTPUT						
Rated Power	2000VA / 2000W	2500VA / 2500W	3000VA / 3000W	4000VA / 4000W	5500VA / 5500W	6000VA / 6000W
Output Channel	Dual	Dual	Dual	Dual	Dual	Dual
Surge Power	3200W	5000W	6000W	7000W	11000W	12400W
Waveform	Pure Sine Wave					
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)					
Inverter Efficiency (Peak)	>90%					
Transfer Time	10ms(UPS / VDE4105) / 20ms(APL)					
AC INPUT						
Voltage	230VAC					
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)					
Frequency Range	50Hz / 60Hz (Auto sensing)					
BATTERY						
Normal Voltage	12VDC	24VDC	24VDC	24VDC	48VDC	48VDC
Floating Charge Voltage	13.7VDC	27.4VDC	27.4VDC	27.4VDC	54.8VDC	54.8VDC
Overcharge Protection	15VDc	30VDC	30VDC	30VDC	60VDC	60VDC
SOLAR CHARGER & AC CHARGER						
Maximum PV Array Open Circuit Voltage	400VDC	400VDC	400VDC	450VDC	450VDC	500VDC
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)					
Maximum PV Array Power	2000W	4000W	4000W	4000W	6000W	6200W
PV Array MPPT Voltage Range	30-320VDC	30-320VDC	30-320VDC	60-360VDC	60-360VDC	120~450VDC
PV Maximum Input Current	16A	18A	18A	18A	28A	28A
Maximum Solar Charge Current	80A	100A	100A	100A	100A	120A
Maximum AC Charge Current	80A	60A	60A	60A	100A	100A
Maximum Charge Current	80A	100A	100A	100A	100A	120A
MECHANICAL SPECIFICATIONS						
Machine Dimension (W*H*D)(mm)	290*367*111	290*367*111	290*367*111	318*367*122.5	318*454*122.5	318*428*140
Package Dimension (W*H*D)(mm) / /	446*394*187	446*394*187	446*394*187	446*410*200	544.5*410*210	550*400*220
N.W (kg) / /	6.4	6.7	6.7	7.3	9	10
G.W (kg) / /	7.4	7.7	7.7	8.3	10.5	11.6
OTHER						
Humidity	5% to 95% Relativ Humidity (Non-condensing)					
Operating Temperature	0°C~50°C					
Storage Temperature	-15°C ~60°C					
Warranty	2years					
CERTIFICATION & STANDARDS						
CE						

*The technical specifications of this document are subject to change without any notice

TANDHAN POWER

JEWEL MASS

HIGH FREQUENCY **SOLAR INVERTER EXP SERIES**

PRODUCT **DESCRIPTION**

JMI 19 EXP is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support in portable size. JMI 19 EXP Series can run without battery. The Maximum PV array open circuit voltage can reach 500V and MPPT voltage is 150~450Vdc, which Can help customers make full use of solar energy.

PRODUCT **FEATURES**

- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built-in MPPT solar charge controller
- MAX PV Array Open Circuit Voltage: 500V (450V for parallel)
- Can provide the power to the load without battery
- Combining solar system, AC utility, and battery power source to supply continuous power
- Cold start function
- Parallel operation with up to 9 units (for 48V mode)
- WIFI remote monitoring (optional)
- Dual outputs for smart load management(optional)

RANGE - JMI 19EXP 4024 | JMI 19EXP 6048 | JMI 19EXP 6248
JMI 19EXP 8048 | JMI 19EXP 10048 | JMI 19EXP 12048

TANDHAN POWER

PRODUCT **SPECIFICATIONS**

JMI 19 SOLAR INVERTER EXP SERIES		
Model	**JMI 19 EXP 4024**	**JMI 19 EXP 6048**
Default Battery System Voltage	24VDC	48VDC
INVERTER OUTPUT		
Rated Power	4000VA / 4000W	6000VA / 6000W
Surge Power	8000W	12000W
Waveform	Pure Sine Wave	
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)	
Inverter Efficiency (Peak)	0.92	
Transfer Time	10ms(UPS / VDE4105) / 20ms(APL)	
AC INPUT		
Voltage	230VAC	
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)	
Frequency Range	50Hz / 60Hz (Auto sensing)	
BATTERY		
Normal Voltage	24VDC	48VDC
Floating Charge Voltage	27.4VDC	54.8VDC
Overcharge Protection	30VDC	60VDC
SOLAR CHARGER & AC CHARGER		
Maximum PV Array Open Circuit Voltage	500VDC (450V for parallel)	
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)	
Maximum PV Array Power	5000W	6000W
PV Array MPPT Voltage Range	150~450VDC (150~430VDC for parallel)	
Maximum Solar Charge Current	100A	120A
Maximum AC Charge Current	80A	100A
Maximum Charge Current	100A	120A
MECHANICAL SPECIFICATIONS		
Machine Dimension (W*H*D)(mm)	322*486*134	309*505*147
Package Dimension (W*H*D)(mm)		
N.W (kg)		
G.W (kg)		
OTHER		
Humidity	5% to 95% Relativ Humidity (Non-condensing)	
Operating Temperature	0°C~50°C	
Storage Temperature	-15°C -60°C	
Warranty	2years	
CERTIFICATION & STANDARDS		
CE-EMC+LVD (EN6100-6-3:2007, EN6100-6-1:2017+EN IEC62109-1:2010, EN IEC62109-2:2011)		
EN IEC62368-1:2020+A11:2020		
CE-LVD (IEC62109-1:2010, EN IEC62109-2:2011)		
EN IEC62368-1:2018, EN IEC62109-1:2010, EN IEC62109-2:2011		

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TANDHAN POWER

PRODUCT **SPECIFICATIONS**

JMI 19 SOLAR INVERTER EXP SERIES				
Model	**JMI 19 EXP 6248**	**JMI 19 EXP 8048**	**JMI 19 EXP 10048**	**JMI 19 EXP 12048**
Default Battery System Voltage	48VDC			
INVERTER OUTPUT				
Rated Power	6200VA/6200W	8000VA/8000W	10000VA/10000W	12000VA/12000W
Surge Power	12400W	16000W	20000W	24000W
Waveform	Pure sine wave			
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)			
Inverter Efficiency (Peak)	>92%			
Transfer Time	10ms(UPS / VDE4105) / 20ms(APL)			
AC INPUT				
Voltage	230VAC			
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)			
Frequency Range	50Hz / 60Hz (Auto sensing)			
BATTERY				
Normal Voltage	48VDC	48VDC	48VDC	48VDC
Floating Charge Voltage	54.8VDC	54.8VDC	54.8VDC	54.8VDC
Overcharge Protection	60VDC	60VDC	60VDC	60VDC
SOLAR CHARGER & AC CHARGER				
Maximum PV Array Open Circuit Voltage	500VDC (450V for parallel)			
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)			
Maximum PV Array Power	4000W*2	4000W*2	5000W*2	6000W*2
PV maximum input current	18A*2	18A*2	27A*2(40A max)	27A*2(40A max)
PV Array MPPT Voltage Range	90~450VDC (90~430VDC for parallel)			
Maximum Solar Charge Current	120A	120A	150A	150A
Maximum AC Charge Current	100A	120A	150A	150A
Maximum Charge Current	120A	120A	150A	150A
MECHANICAL SPECIFICATIONS				
Machine Dimension (W*H*D)(mm)	425*473*145	425*527*145	425*527*145	425*527*145
Package Dimension (W*H*D)(mm)	548*632*257	548*632*257	548*632*257	548*632*257
N.W (kg)	12.5	17.48	17.48	19.50
G.W (kg)	13.5	20.00	20.00	22.00
OTHER				
Humidity	5% to 95% Relativ Humidity (Non-condensing)			
Operating Temperature	0°C~50°C			
Storage Temperature	-15°C ~60°C			
Warranty	2years			
CERTIFICATION & STANDARDS				
CE-EMC+LVD (EN6100-6-3:2007, EN6100-6-1:2017+EN IEC62109-1:2010, EN IEC62109-2:2011)				
EN IEC62368-1:2020+A11:2020				
CE-LVD (IEC62109-1:2010, EN IEC62109-2:2011)				
EN IEC62368-1:2018, EN IEC62109-1:2010, EN IEC62109-2:2011				

*The technical specifications of this document are subject to change without any notice

TANDHAN POWER

JEWEL MASS

HIGH FREQUENCY **HYBRID SOLAR INVERTER** (ON/OFF GRID)

PRODUCT **DESCRIPTION**

JMI 11 EU is brand new three phase hybrid inverter with low battery voltage 48V, ensuring system safe and reliable. With compact design and high-power density, this series supports 1.3 DC/AC ratio, saving device investment. It supports three phase unbalanced output, extending the application scenarios.

PRODUCT **FEATURES**

- 100% unbalanced output, each phase max. output up to 50% rated power
- Max. 6 pcs parallel for on-grid and off-grid operation
- Max. charging/discharging current of 240A
- Support storing energy from diesel generator
- 48V low voltage battery, transformer isolation design
- IP65 water-proof and dust-proof
- "Time of use" function: a maximum of 6 time segments can be set
- Wifi monitoring

RANGE - JMI 11-5KL3-EU
to JMI 11-16KL3-EU

PRODUCT **SPECIFICATIONS**

JMI 11 ON/OFF GRID HYBRID SOLAR INVERTER					
Model	**JMI 11-5KL3-EU**	**JMI 11-6.5KL3-EU**	**JMI 11-8KL3-EU**	**JMI 11-10KL3-EU**	**JMI 11-12KL3-EU**
Rated power	5000W	6500W	8000W	10000W	12000W
BATTERY INPUT DATA					
Battery type	Lead-acid battery / Lithium battery				
Battery voltage	48V				
Battery voltage range	40~60V				
Charging curve	3-stage adaptive with maintenance/Equalization				
Charging Strategy for Li-Ion Battery	Self-adaption to BMS				
Over-current protection/ Over-temperature protection	Yes / Yes				
Maximum charging/discharging power	5000W	6500W	8000W	10000W	12000W
Maximum charging/discharging current	120A	150A	190A	210A	240A
PV STRING INPUT DATA					
Max. DC Input Power	6500W	8450W	10400W	13000W	15600W
Maximum DC voltage	800V				
Start-up Voltage	160V				
MPPT voltage range	200~650V				
Maximum input current	15A/15A		26A/13A		
No.of MPP Tracker/ No.of Strings per MPP Tracker	2/1+1		2/1+1		
AC INPUT/OUTPUT DATA					
Rated AC Input/ Output Power	5000W	6500W	8000W	10000W	12000W
Max AC Input/ Output Power	5500W	7150W	8800W	11000W	13200W
AC Input/ Output Rated Current	7.6/7.2A	9.8/9.42A	12.1/11.6A	15.2/14.5A	18.2/17.4A
Max AC Input/ Output Current	8.4/8A	10.8/10.4A	13.4/12.8A	16.7/15.9A	20/19.1A
Max. Three-phase Unbalanced Output Current	11.4/10.9A	14.7/14.1A	18.2/17.4A	22.7/21.7A	27.3/26.1A
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated Input/Output Voltage	3P-220/380,230/400Vac				
Rated Input/Output Grid Frequency/Range	50/60;45~55/55-65				
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)				
DC Current Injection	<0.5% In				
EFFICIENCY					
Max. Efficiency/Euro Efficiency	≥97.5%/97%				
PROTECTION					
Integrated	PV Arc Fault Detection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection				
Surge Protection	DC Type III/AC Type III				
GENERAL DATA					
Operating Temperature Range (°C)	-20°C to +60°C, >45°C Derating				
Cooling	Smart cooling				
Noise (dB)	≤55dB				
Communication with BMS	Wi-Fi/USB/GPRS/RS485/CAN				
Machine Dimension (W*H*D)(mm)	444*654.2*259.2				
N.W(kg)	35				
Protection Degree	IP65				
Installation Style	Wall-mounted				
Warranty	5Yrs the Warranty Period Depends the Final Installation Site of Inv.				
CERTIFICATION & STANDARDS					
CE-EMC+LVD (EN6100-6-3, EN6100-6-1+EN IEC 62109-1, EN IEC 62109-2); CE-LVD(EN 62477-1) ; IEC 60529; EN50549-1; Poland Type A, (NC RfG:2016, PSE:2018, PTPiREE:2021)C10/C11; UNE217001-2020; UNE217002-2020, NTS-631 (Type A); G98+G99					

*The technical specifications of this document are subject to change without any notice

TANDHAN POWER

JMI 11 ON/OFF GRID **HYBRID SOLAR INVERTER**

MODEL	JMI 11-13KL3-EU	JMI 11-14.2KL3-EU	JMI 11-15KL3-EU	JMI 11-16KL3-EU
Rated power	13000W	14200W	15000W	16000W
BATTERY INPUT DATA				
Battery type	Lead-acid battery / Lithium battery			
Battery voltage	48V			
Battery voltage range	40~60V			
Charging curve	3-stage /Equal Charging			
Charging Strategy for Li-Ion Battery	AdaptiveBMS System			
Over-current protection/ Over-temperature protection	Yes / Yes			
Maximum charging/discharging power(W)	13000W	14200W	15000W	16000W
Maximum charging/discharging current(A)	260A	280A	300A	320A
PV STRING INPUT DATA				
Max. DC Input Power	26000W	28400W	30000W	32000W
Maximum Input Power of each PV (PV1/PV2)	18300W/10100W	20000W/11100W	21100W/11700W	22500W/12500W
Rated PV Input Voltage 9V)	500V			
Maximum DC Voltage	800V			
Start-up Voltage	160V			
MPPT voltage range	200~650V			
Full load MPPT Voltage range(V)	464V-650V	507V-650V	536V-650V	571-650V
PV Maximum input current (A)	36A+20A			
PV Maximum Short Circuit current (A)	54A+30A			
No.of MPP Tracker/ No.of Strings per MPP Tracker	2/2+1			
Generator Input Data				
Rated AC Input active Power (W)	13000W	14200W	15000W	16000W
Max. AC Input apparent Power (VA)	14300VA	15620VA	16500VA	17600VA
Rated AC Input Current (A)	18.8A	20.6A	21.7A	23.2A
Smart Load Output Data				
Rated AC Output active Power (W)	13000W	14200W	15000W	16000W
Max. AC Output apparent Power (VA)	14300VA	15620VA	16500VA	17600VA
Rated AC Output Current (A)	18.8A	20.6A	21.7A	23.2A
Mico Inv. Input Data				
Rated AC Input active Power (W)	13000W	14200W	15000W	16000W
Max. AC Input apparent Power (VA)	14300VA	15620VA	16500VA	17600VA
Rated AC Input Current (A)	18.8A	20.6A	21.7A	23.2A

TANDHAN POWER

JMI 11 ON/OFF GRID **HYBRID SOLAR INVERTER**

MODEL	JMI 11-13KL3-EU	JMI 11-14.2KL3-EU	JMI 11-15KL3-EU	JMI 11-16KL3-EU
AC INPUT/OUTPUT DATA				
Rated AC Input/ Output Power	13000W	14200W	15000W	16000W
Max AC Input/ Output Power	14300VA	15620VA	16500VA	17600VA
AC Input/ Output Rated Current	18.8A	20.6A	21.7A	23.2A
Max AC Input/ Output Current	20.6A	22.6A	23.8A	25.5A
Maximum Output Short Circuit current (A)	100A			
Grid bypass current (A)	60A			
Peak Power (off-grid)	2 Times eated power, 10 Second			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated Input/Output Voltage	3P-220/380,230/400Vac			
Rated Input/Output Grid Frequency/Range	50/60; 45-55/55-65			
Total Harmonics Current Distortion	THD<3% (Linear Load)			
DC Current Injection	<0.5% In			
EFFICIENCY				
Max. Efficiency/Euro Efficiency	≥97.6%/97%			
MPPT Efficiency	>99%			
PROTECTION				
Integrated	PV Arc Fault Detection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection			
Surge Protection	DC Type III/AC Type III			
GENERAL DATA				
Operating Temperature Range (°C)	-20°C to +60°C, >45°C Derating			
Cooling Method	Intelligent Air Cooling			
Noise (dB)	≤56dB			
Communication with BMS	RS485/CAN			
Machine Dimension (W*H*D)(mm)	446*656*285 (Excluding Connectors and rack)			
Package Dimension (W*H*D)(mm)	567*816*404			
N.W(kg)	43kg			
Protection Degree	IP66			
Installation Style	Wall-mounted			
Warranty	5Yrs the Warranty Period Depends the Final Installation Site of Inv.			
CERTIFICATION & STANDARDS				
CE-EMC+LVD (EN6100-6-3, EN6100-6-1+EN IEC 62109-1, EN IEC 62109-2); CE-LVD(EN 62477-1) ; IEC 60529; EN50549-1; Poland Type A, (NC RfG:2016, PSE:2018, PTPiREE:2021)C10/C11; UNE217001-2020; UNE217002-2020, NTS-631 (Type A); G98+G99				
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