

12KW/17KWh Energy Storage System

Hybrid Inverter: 1x12KW

LFP Battery: 1x17KWh



Inverter



Battery



Flexible Adaptability

10-unit parallel, On/Off-grid, Generator input integrated, 30A high current PV input



Safe and Secure

Battery terminal temperature monitoring, IP65 protection, Type II AC/DC SPDs, optional AFCI protection



High Performance

160% PV oversizing, 110% AC output, 200% EPS peak power (10s), 290A high-current charge/discharge, 80V low start-up voltage



Efficient Management

Smart load management via cloud platform & LCD screen, UPS-level switchover < 6 ms (single unit)



Efficient and Flexible

- Simple buckle fixing minimizes the installation time & cost.
- Flexibility increases voltage capacity without any other equipment or settings



Excellent Quality

- 80% of initial capacity after 6000 cycles
- Multiple security protection strategies



Safe and Secure

- LFP offers the highest safety
- Supports up to 10 in parallel connections



Efficient Management

- Accurate sampling of voltage & current
- SoC estimation remains accurate & consistent under typical use

Model	IG-TPLV 12-17 VC
PV Input	
Recommended Max.input power(kW)	19.2
Start-up voltage(V)	160
Max.DC input voltage(V)	800
Rated DC input voltage(V)	550
MPPT voltage range(V)	200 ~ 700
No.of MPPT trackers	2
No.of DC inputs per MPPT	2 + 2
Max.input current(A)	30 + 30
Max.short-circuit current(A)	36 + 36
Grid Side	
Rated output power(kW)	12
Max.output apparent power(kVA)	13.2
Max.input apparent power(kVA)	13.2
Max.charging power of battery(kW)	12
Rated AC voltage	220 / 380 , 230 / 400 , 3 L / N / PE
Rated AC frequency(Hz)	50/60
Max.output current(A)	19.2
Power factor	-0.8 lagging ~ 0.8 leading
Max.total harmonic distortion	< 3% (of nominal power)
Back-up Side	
Rated output power(kW)	12
Max.output current(A)	19.2
UPS switching time(ms)	< 6
Rated output voltage	220 / 380 , 230 / 400 , 3 L / N / PE
Rated output frequency(Hz)	50/60

Voltage harmonic distortion	< 3% (of nominal power)
Efficiency	
Max. efficiency(%)	97.6
European efficiency(%)	96.5
Protection	
Integration	DC Polarity Reverse Connection Protection, AC Output Overcurrent 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, Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current Detection(RCD), Rapid Shutdown, RSD(Optional)
Over voltage category	PV:II Main:III

Battery	
Total Energy	16.89 kWh
Max. Discharge Power	12 kW
Rated Capacity	330 Ah
Voltage Range	48 – 56 Vdc
Nominal Voltage	51.2 Vdc
Operating Condition	Indoor
Charge Operating Temperature	-10 to 70 °C
Discharge Operating Temperature	-20 to 70 °C
IP Rating	IP20
Protective Class	I
Relative Humidity (RH)	0 – 95% RH (non-condensing)
Cooling Type	Ambient cooling
Case Material	Metal
Installation	Floor Standing & Stack

Cycle	6000 Cycles @ 80% DoD
Protection Mode	Triple Hardware Protection
Fire Suppression	Integrated condensed aerosol

General Data	
Dimensions [W×H×D(mm)]	Inverter: 440×660×282 Battery: 450×674×234
Weight(kg)	Inverter: 38.5 Battery: 116
Protection degree	Inverter: IP65 Battery: IP20
Topology	Transformerless for PV Side / HF for Battery Side
Operating Temperature Range(°C)	-25 ~ +60(>45 derating)
Relative Humidity(%)	5 ~ 95 (No condensation)
Operating Altitude(m)	< 3000
Cooling	Intelligent Redundant Fan Cooling
Noise Level(dB)	≤ 55
Display	LED+LCD
Communication	RS485/CAN/WIFI / (4G, LAN Optional)
Safety Certification	IEC 62109, IEC 61000
Grid Connection Certification	EN 50549-1/10, IEC 61683, IEC 61727, IEC62116

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