



Hybrid Inverter

4kW-24V

SP-HYBRID



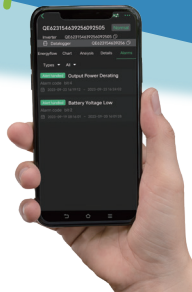
- ✓ 3 years replacement
- ✓ 5 years service warranty



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Model	IPV-4K24U
Efficiency	
MPPT Tracking Efficiency	99.9%
Max. Battery Mode Conversion Efficiency	93%
PV Input	
Max. PV Input Power	4000W
Max. DC Input Voltage	500V
Start-up Voltage	75V
MPPT Voltage Range	85V~450V
Max. Input Current	15A
Number of MPPT Trackers	1
AC Input	
Max. Grid Input Voltage (Absolute Maximum Ratings)	> 380VAC
Input Voltage Range	90-280VAC
Maximum AC Input Current	22A
Nominal Operating Frequency	50/60Hz
AC Output	
Nominal AC Output Power	4000W
Max. Output Apparent Power	4000VA
Nominal AC Output Voltage	220/230/240VAC
Total Voltage Harmonic Distortion	<3%
Nominal AC Output Current	18.2A
Max. AC Output Current	36.4A (5seconds)
Nominal AC Frequency	50Hz/60Hz
Switch Time	10ms
Surge Power	8000VA
Load Capacity of Motor	3.5HP
Overload Capacity	10s@110%~150% load 5s@150%~200% load
Battery	
Battery Type	Lead-acid/Li-ion/User Defined
Rated Battery Voltage	24VDC
Battery Voltage Range	20V-30V
Max. MPPT Charging Current	120A
Max. Mains/Generator Charging Current	100A
Max. Battery Discharging Current	160A
General	
Dimensions D*W*H (mm)	120*346.6*444.7
Net Weight (kg)	11.4
Operating Temperature Range	-10~+55°C, >45°C Power Derating
Max. Operating Altitude	4000m, >2000m Power Derating
Communication	WiFi/RS485(BMS)/Dry Contact/RS232
Diesel Generator Support	Yes, External ATS
Smart Load Support	Yes, External Contactor
Number of Parallel	Not support
Cooling Method	Intelligent Fan Cooling
Noise	< 60dB
Authentication Level	IEC62109-1, IEC62109-2, IEC61683
Protection	
Ingress Protection	IP54
Overvoltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: TypeIII, AC: TypeIII



Hybrid Inverter

6kW-48V

SP-HYBRID

IP54
Low Failure Rate

No. of Parallel Support 12

- ✓ 3 years replacement
- ✓ 5 years service warranty

Strong Overload Capacity

Smart load (Additional Contactor)

Intelligent Air Cooling

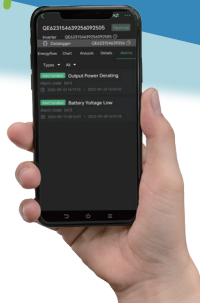
93%
High Conversion Efficiency



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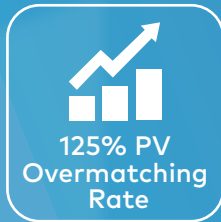
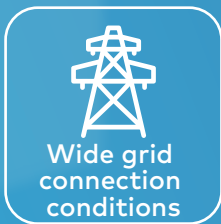
Model	IPV-6K48U
Efficiency	
MPPT Tracking Efficiency	99.9%
Max. Battery Mode Conversion Efficiency	93%
PV Input	
Max. PV Input Power	6000W
Max. DC Input Voltage	500V
Start-up Voltage	75V
MPPT Voltage Range	85V~450V
Max. Input Current	27A
Number of MPPT Trackers	1
AC Input	
Max. Grid Input Voltage (Absolute Maximum Ratings)	>380VAC
Input Voltage Range	90-280VAC
Maximum AC Input Current	50A
Nominal Operating Frequency	50/60Hz
AC Output	
Nominal AC Output Power	6000W
Max. Output Apparent Power	6000VA
Nominal AC Output Voltage	220/230/240VAC
Total Voltage Harmonic Distortion	<3%
Nominal AC Output Current	27.3A
Max. AC Output Current	54.6A (5seconds)
Nominal AC Frequency	50Hz/60Hz
Switch Time	10ms
Surge Power	12000VA
Load Capacity of Motor	5HP
Overload Capacity	10s@110%~150% load 5s@150%~200% load
Battery	
Battery Type	Lead-acid/Li-ion/User Defined
Rated Battery Voltage	48VDC
Battery Voltage Range	40V-60V
Max. MPPT Charging Current	120A
Max. Mains/Generator Charging Current	120A
Max. Battery Discharging Current	130A
General	
Dimensions D*W*H (mm)	120*346.6*444.7
Net Weight (kg)	15
Operating Temperature Range	-10~+55°C, >45°C Power Derating
Max. Operating Altitude	4000m, >2000m Power Derating
Communication	WiFi/RS485(BMS)/Dry Contact/RS232
Diesel Generator Support	Yes, External ATS
Smart Load Support	Yes, External Contactor
Number of Parallel	12
Cooling Method	Intelligent Fan Cooling
Noise	< 60dB
Authentication Level	IEC62109-1, IEC62109-2, IEC61683
Protection	
Ingress Protection	IP54
Overvoltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: TypeIII, AC: TypeIII



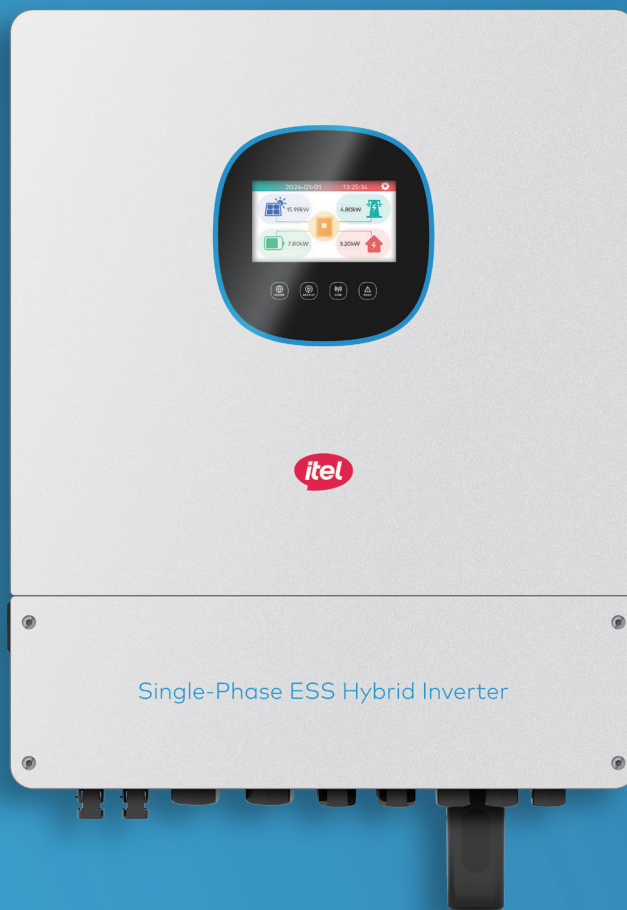
Hybrid Inverter

6kW-48V

SP-HYBRID



- ✓ 5 years replacement
- ✓ 5 years service warranty



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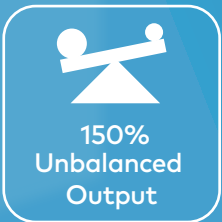
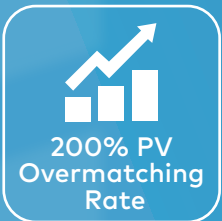
Model	IHY-6KL1A
Efficiency	
MPPT Tracking Efficiency	99.9%
Max. Conversion Efficiency (PV)	97.6%
European Efficiency	97.0%
PV String Input	
Max. PV Input Power	7500W
Max. DC Input Voltage	500V
Start-up Voltage	125V
MPPT Voltage Range	150V-450V
Max. Input Current	18A/18A
Number of MPPT Trackers	2
AC Output (on-grid)	
Nominal Output Power	6000W
Max. Output Apparent Power	6000VA
Nominal Output Voltage	220/230VAV
Max. Output Current	27A
Max. Grid Input Voltage (Absolute Maximum Ratings)	>380VAC
Output Voltage Range	180~280VAC
Output Frequency Range	45~65Hz
Power Factor Adjustment Range	0.8 Leading to 0.8 Lagging
Total Current Harmonic Distortion	<3%
AC Output (backup)	
Peak Output Power (15 seconds)	12000VA
Nominal Output Power	6000W
Max. Output Apparent Power	6000VA
Nominal Output Voltage	230VAC
Max. Output Current	27A
Nominal Output Frequency	50/60Hz
Total Voltage Harmonic Distortion	<3%
Switch Time to Backup Mode	10ms
Battery	
Battery Type	Lead-acid/Li-ion/User Defined
Rated Battery Voltage	48VDC
Battery Voltage Range	40V-60V
Max. MPPT Charging Current	120A
Max. Mains/Generator Charging Current	120A
Max. Discharging Current	120A
General	
Ingress Protection	IP66
Dimensions D*W*H (mm)	198*427*554
Net Weight (kg)	20
Operating Temperature Range	-25~60°C, >45°C Power Derating
Max. Operating Altitude	4000m, >2000m Power Derating
Diesel Generator Support	Yes
Smart Load Support	Yes
Number of Parallel	12
Cooling Method	Natural Convection
Noise	< 40dB
Communication	WIFI/RS485/CAN/Dry contact
Authentication Level	IEC62109-1, IEC62109-2, IEC61683, IEC62116, IEC61727
Protection	
PV Reverse Protection	Yes
Insulation Impedance Detection	Yes
Residual Current Monitoring	Yes
Overvoltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: Typelll, AC: Typelll



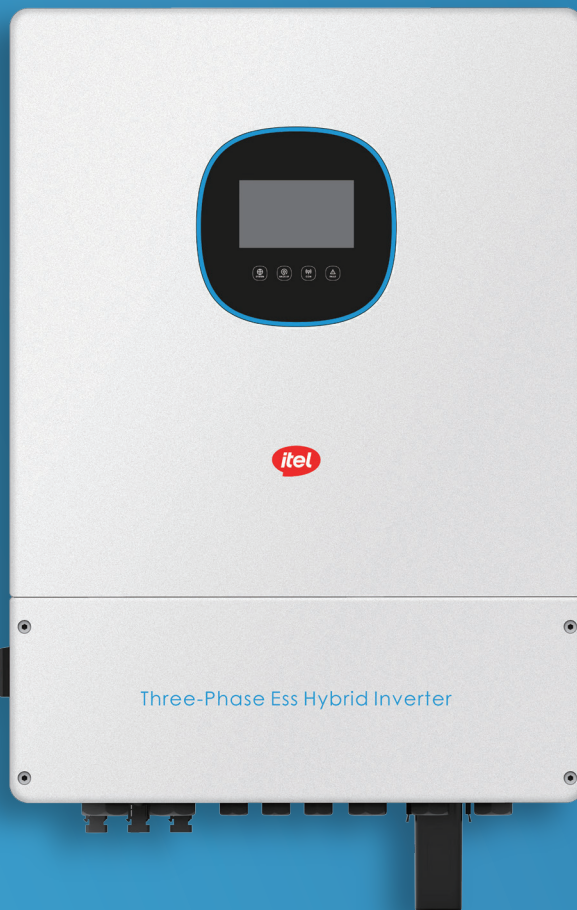
Hybrid Inverter

8kW-48V

3P-HYBRID



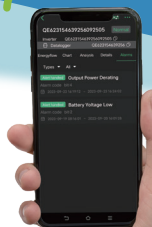
- ✓ 5 years replacement
- ✓ 5 years service warranty



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Model	IHY-8KL3
Efficiency	
MPPT Tracking Efficiency	99.9%
Max. Conversion Efficiency (PV)	98.0%
European Efficiency	97.5%
PV String Input	
Max. PV Input Power	16000W
Max. DC Input Voltage	1000V
Start-up Voltage	150V
MPPT Voltage Range	200V-800V
Max. Input Current	18A/18A
Number of MPPT Trackers	2
AC Output (on-grid)	
Max. Grid Input Voltage (Absolute Maximum Ratings)	>380VAC (L-N)
Nominal Output Power	8000W
Max. Output Apparent Power	8800VA
Nominal Output Voltage	220/380VAC, 230/400VAC
Rated/Max. Output Current	12A/13.3A
Output Voltage Range	180~280VAC (L-N)
Output Frequency Range	45~65Hz
Power Factor Adjustment Range	0.8 Leading to 0.8 Lagging
Total Current Harmonic Distortion	<3%
AC Output (backup)	
Peak output power (15 seconds)	16000VA
Load Capacity of Motor	3HP
Nominal Output Power	8000W
Max. Output Apparent Power	8800VA
Nominal Output Voltage	220/380VAC, 230/400VAC
Rated/Max. Output Current	12A/13.3A
Max. Three-phase Unbalanced Output Current	18A
Nominal Output Frequency	50/60Hz
Total Voltage Harmonic Distortion	<3%
Switch Time to Backup Mode	10ms
Battery	
Battery Type	Lead-acid/Li-ion/User Defined
Rated Battery Voltage	48VDC
Battery Voltage Range	40V-60V
Max. Charging/Discharging Current	190A
General	
Ingress Protection	IP66
Dimensions D*W*H (mm)	256*475*683
Net Weight (kg)	38
Operating Temperature Range	-25~60°C, >45°C Power Derating
Max. Operating Altitude	4000m, >2000m Power Derating
Diesel Generator Support	Yes
Smart Load Support	Yes
Number of Parallel	12
Cooling Method	Intelligent Fan Cooling
Noise	< 55dB
Communication	WiFi/RS485/CAN/Dry Contact
Authentication Level	IEC62109-1, IEC62109-2, IEC61683, IEC62116, IEC61727
Protection	
PV Reverse-Polarity Protection	Yes
Insulation Impedance Detection	Yes
Residual Current Monitoring	Yes
Overvoltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: TypeIII, AC: TypeIII



Hybrid Inverter

12kW-48V 3P-HYBRID

IP66
Ingress
Protection

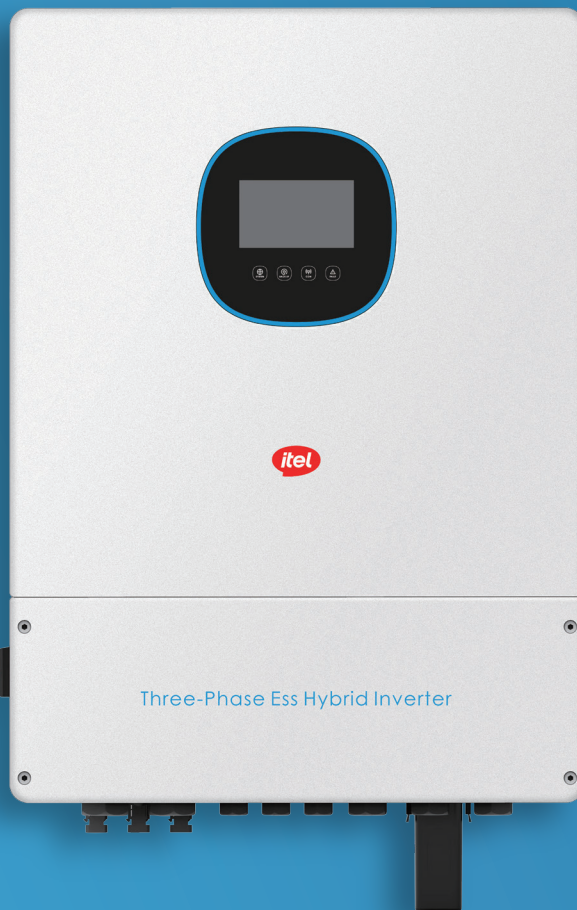
Strong Overload
Capacity

Three Output
Function

200% PV
Overmatching
Rate

150%
Unbalanced
Output

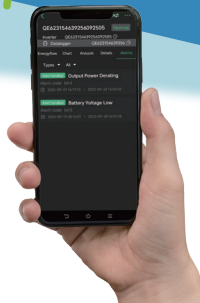
- ✓ 5 years replacement
- ✓ 5 years repair warranty



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Model	IHY-12KL3
Efficiency	
MPPT Tracking Efficiency	99.9%
Max. Conversion Efficiency (PV)	98.0%
European Efficiency	97.5%
PV String Input	
Max. PV Input Power	24000W
Max. DC Input Voltage	1000V
Start-up Voltage	150V
MPPT Voltage Range	200V-800V
Max. Input Current	36A/18A
Number of MPPT Trackers	2
AC Output (on-grid)	
Max. Grid Input Voltage (Absolute Maximum Ratings)	>380VAC (L-N)
Nominal Output Power	12000W
Max. Output Apparent Power	13200VA
Nominal Output Voltage	220/380VAC, 230/400VAC
Rated/Max. Output Current	18.2A/20A
Output Voltage Range	180~280VAC (L-N)
Output Frequency Range	45~65Hz
Power Factor Adjustment Range	0.8 Leading to 0.8 Lagging
Total Current Harmonic Distortion	<3%
AC Output (backup)	
Peak output power (15seconds)	24000VA
Load Capacity of Motor	3HP
Nominal Output Power	12000W
Max. Output Apparent Power	13200VA
Nominal Output Voltage	220/380VAC, 230/400VAC
Rated/Max. Output Current	18.2A/20A
Max. Three-phase Unbalanced Output Current	27.3A
Nominal Output Frequency	50/60Hz
Total Voltage Harmonic Distortion	<3%
Switch Time to Backup Mode	10ms
Battery	
Battery Type	Lead-acid/Li-ion/User Defined
Rated Battery Voltage	48VDC
Battery Voltage Range	40V-60V
Max. Charging/Discharging Current	250A
General	
Ingress Protection	IP66
Dimensions D*W*H (mm)	256*475*683
Net Weight (kg)	38
Operating Temperature Range	-25~60°C, >45°C Power Derating
Max. Operating Altitude	4000m, >2000m Power Derating
Diesel Generator Support	Yes
Smart Load Support	Yes
Number of Parallel	12
Cooling Method	Intelligent Fan Cooling
Noise	< 55dB
Communication	WiFi/RS485/CAN/Dry Contact
Authentication Level	IEC62109-1, IEC62109-2, IEC61683, IEC62116, IEC61727
Protection	
PV Reverse-Polarity Protection	Yes
Insulation Impedance Detection	Yes
Residual Current Monitoring	Yes
Overvoltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: TypeIII, AC: TypeIII



Grid-Tied Inverter

12kW 3P ON-GRID

IP66
Ingress Protection

Solid materials,
high reliability

Wide grid
connection
conditions

Dual MPPT

High Efficiency

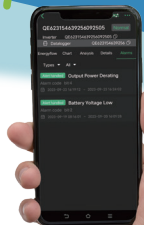
- ✓ 5 years replacement
- ✓ 5 years repair warranty



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Model	IGT-12KTA
Efficiency	
MPPT Tracking Efficiency	99.9%
Max. Conversion Efficiency (PV)	98.7%
European Efficiency	98.1%
PV String Input	
Max. PV Input Power	15600W
Max. DC Input Voltage	1100V
MPPT Voltage Range	180V-1000V
Max. Input Current	18A/18A
Number of MPPT Trackers	2
Max. Input Strings Number per MPPT	1/1
AC Output	
Rated Output Power	12000W
Max. Output Apparent Power	13200VA
Nominal Output Voltage	230/400VAC
Max. Output Current	20A
Output Voltage Range	180~280VAC (L-N)
Rated Frequency	50/60Hz
Output Frequency Range	45~65Hz
Power Factor	>0.99
Power Factor Adjustment Range	0.8 Leading to 0.8 Lagging
Total Current Harmonic Distortion	<2%
General	
Ingress Protection	IP66
Dimensions D*W*H (mm)	204*450*427
Net Weight (kg)	15.3
Operating Temperature Range	-25~60°C, >45°C Power Derating
Max. Operating Altitude	4000m
Noise	< 45dB
Power Consumption At Night	<1W
Cooling Method	Intelligent Fan Cooling
Communication	WiFi/RS485
Authentication Level	IEC62109-1, IEC62109-2, IEC61683, IEC62116, IEC61727
Protection	
PV Reverse-Polarity Protection	Yes
Insulation Impedance Detection	Yes
Residual Current Monitoring	Yes
Grid Monitoring	Yes
Overvoltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: Typell, AC: Typell



Grid-Tied Inverter

17kW 3P ON-GRID

IP66
Ingress
Protection

Solid materials,
high reliability

Wide grid
connection
conditions

Dual MPPT

High Efficiency

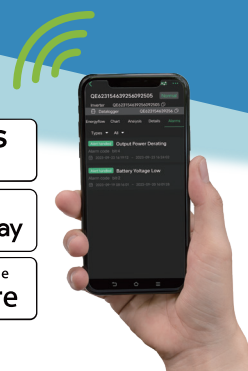
- ✓ 5 years replacement
- ✓ 5 years repair warranty



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Model	IGT-17KTA
Efficiency	
MPPT Tracking Efficiency	99.9%
Max. Conversion Efficiency (PV)	98.7%
European Efficiency	98.2%
PV String Input	
Max. PV Input Power	22100W
Max. DC Input Voltage	1100V
MPPT Voltage Range	180V-1000V
Max. Input Current	18A/30A
Number of MPPT Trackers	2
Max. Input Strings Number per MPPT	1/2
AC Output	
Rated Output Power	17000W
Max. Output Apparent Power	18700VA
Nominal Output Voltage	230/400VAC
Max. Output Current	28.3A
Output Voltage Range	180~280VAC (L-N)
Rated Frequency	50/60Hz
Output Frequency Range	45~65Hz
Power Factor	>0.99
Power Factor Adjustment Range	0.8 Leading to 0.8 Lagging
Total Current Harmonic Distortion	<2%
General	
Ingress Protection	IP66
Dimensions D*W*H (mm)	204*450*427
Net Weight (kg)	17.3
Operating Temperature Range	-25~60°C, >45°C Power Derating
Max. Operating Altitude	4000m
Noise	< 45dB
Power Consumption At Night	<1W
Cooling Method	Intelligent Fan Cooling
Communication	WiFi/RS485
Authentication Level	IEC62109-1, IEC62109-2, IEC61683, IEC62116, IEC61727
Protection	
PV Reverse-Polarity Protection	Yes
Insulation Impedance Detection	Yes
Residual Current Monitoring	Yes
Grid Monitoring	Yes
Overvoltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: Typell, AC: Typell



ESS LV Battery

2.56kWh



Type	IPW-25100
Battery Type	LiFePO4
Nominal Voltage	25.6V
Nominal Capacity (Wh)	2.56kWh
Nominal Capacity	100Ah
Operating Voltage Range	20V-28.8V
Standard Charging Current	50A
Maximum Continuous Charge Current	100A
Cut-off Charging Voltage	28.8V
Cut-off Charging Current	2A
Standard Discharge Current	50A
Maximum Continuous Discharge Current	100A
Maximum Pulse Discharge Current	150A
Cut-off Discharge Voltage	20V
Cut-off Discharge Current	2A
Dimensions (mm)	454*410*135
Weight (kg)	27
Communication Port	RS485/RS232/CAN
Working Temperature/Charge	0~55°C
Working Temperature/Discharge	-20~60°C
Ingress Protection	IP21
Cooling Type	Natural Cooling
Humidity	0% ~95%
Altitude (M)	<2000
Shell Material	Metal
Current Limiting Function	Limited 10A
Precharge Function	Enable
Display Mode	4 Green LED
Design Life	10+ Years
Cycle Life	≥6000
Authentication Level	IEC+UN38.3+MSDS+DGM



ESS LV Battery

5.12kWh



Type	IPW-51100
Battery Type	LiFePO4
Nominal Voltage	51.2V
Nominal Capacity (Wh)	5.12kWh
Nominal Capacity	100Ah
Operating Voltage Range	40V-57.6V
Standard Charging Current	50A
Maximum Continuous Charge Current	100A
Cut-off Charging Voltage	57.6V
Cut-off Charging Current	2A
Standard Discharge Current	50A
Maximum Continuous Discharge Current	100A
Maximum Pulse Discharge Current	150A
Cut-off Discharge Voltage	40V
Cut-off Discharge Current	2A
Dimensions (mm)	454*585*135
Weight (kg)	45
Communication Port	RS485/RS232/CAN
Working Temperature/Charge	0~55°C
Working Temperature/Discharge	-20~60°C
Ingress Protection	IP21
Cooling Type	Natural Cooling
Humidity	0% ~95%
Altitude (M)	<2000
Shell Material	Metal
Current Limiting Function	Limited 10A
Precharge Function	Enable
Display Mode	4 Green LED
Design Life	10+Years
Cycle Life	≥6000
Authentication Level	IEC+UN38.3+MSDS+DGM



ESS LV Battery

5.12kWh



Type	IPL-51100
Battery Type	LiFePO4
Nominal Voltage	51.2V
Nominal Capacity (Wh)	5.12kWh
Nominal Capacity	100Ah
Operating Voltage Range	40V-58.4V
Standard Charging Current	50A
Maximum Continuous Charge Current	100A
Cut-off Charging Voltage	58.4V
Cut-off Charging Current	2A
Standard Discharge Current	50A
Maximum Continuous Discharge Current	100A
Maximum Pulse Discharge Current	150A
Cut-off Discharge Voltage	40V
Cut-off Discharge Current	2A
Dimensions (mm)	460*510*153
Weight (kg)	50
Communication Port	RS485/RS232/CAN
Working Temperature/Charge	0~55°C
Working Temperature/Discharge	-20~60°C
Ingress Protection	IP21
Cooling Type	Natural Cooling
Humidity	0% ~95%
Altitude (M)	<2000
Shell Material	Metal
Current Limiting Function	Limited 10A
Precharge Function	Enable
Display Mode	4 Green LED
Design Life	10+ Years
Cycle Life	≥6000
Authentication Level	IEC+ UN38.3+MSDS+DGM



ESS LV Battery

1.28kWh



Type	12.8V100Ah
Battery Type	LiFePO4
Nominal Voltage	12.8V
Nominal Capacity	100Ah
Operating Voltage Range	10V-14.6V
Standard Charging Current	20A
Maximum Continuous Charge Current	100A
Cut-off Charging Voltage	14.6V
Cut-off Charging Current	1A
Standard Discharge Current	50A
Maximum Continuous Discharge Current	100A
Cut-off Discharge Voltage	10V
Dimension (mm)	328*172*220mm
Weight (kg)	11.5Kg
Working Temperature/C Charge	0°C~55°C
Working Temperature/C Discharge	-20°C~60°C
IP Rating of Enclosure	IP21
Humidity	5% ~95%
Altitude (M)	<2000
Shell Material	PC+ABS
Current Limiting Function	100A
Design Life	5+years
Cycle Life	≥2000
Authentication Level	UN 38.3 +MSDS+ DGM



Solar Generator 600

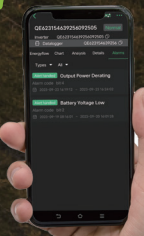
- Solar Charge: 120W(max)
- AC Charge: 60W/9h-full
- Battery: 512Wh
- AC Output: 600W
- TypeC In/Out: PD100W
- Flashlight: 3W/300lm



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Model	ISG-65
Battery Cell Type	LiFePO4
AC Power	600W (220V/50Hz) Pure Sine Wave
Battery Cell Max. Charge Voltage	3.65V
Battery Full Charge Cut-Off Voltage	27.6V
Battery Max. DisCharge Current	40A
Battery Capacity Wh	25.6V/20000mAh
Battery Energy	512Wh
Efficiency	90%
DC Input (MPPT Input)	DC5525: 12-24V/10A 120W (MAX) Support MPPT Solar Charging
TypeC Input (PD)	PD100W
DC/TypeC Ratedtotal Input	DC/TypeC total Input:220W
TypeC Output (PD)	PD100W
USB-A Output	3*USB-A 5V/2.4A (36Wmax)
DC Output	DC*3-13.3V/10A (MAX)
AC Output	AC*2
AC Continuous Output Power - Per Outlet	600W (220V/50HZ) Pure sine wave
AC Peak Output Power - Per Outlet	1000W
LED Flashlight	3W/300lm
Working Temperature	-10-50°C
Noise	30cm<60db
Accessories	90W adapter
Package	Color box
Dimension [WxDxH,mm]	290*216*205
Weight (kg)	6.7
Altitude	<2000m
Authentication Leve	CE,UN38.3