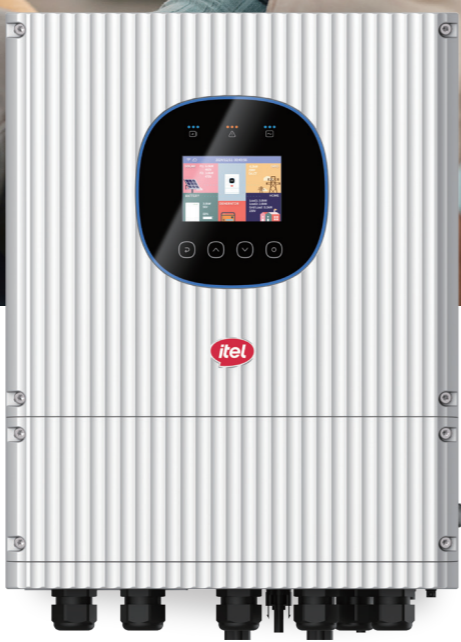




**6.6kW** SP-HYBRID



# Product Features

- Multi-function Output**  
 Support On-grid, Smart Load and Back-up Load
- High Efficiency**  
 MPP Tracking Efficiency  $\geq 99\%$   
 Maximum Battery Mode Conversion Efficiency  $> 93\%$
- Highly User-friendly Design**  
 Low Noise Performance with Perfect Heat Dissipation  
 Looks like a Home Appliance with Stunning Appearance  
 LCD Display with Touch Button

- High PV Input Power**  
 2 MPP Trackers, PV Input Power up to 13200W  
 Max. Solar Charging Current up to 140A
- Powerful Performance**  
 Continuous Working under  $100\% < \text{Load} < 110\%$   
 (If Overtemperature Protection is not Triggered)  
 Intelligent Time-of-use (TOU) Mode to Gain Peak Valley Tariff
- Solid Quality**  
 IP66 Protection Design for Harsh Environmental Condition  
 5-Year Replacement

Model	IHY-6K6L1C
<b>Efficiency</b>	
MPPT Efficiency	99.90%
Max. Battery Mode Conversion Efficiency	$> 93\%$
<b>PV Input</b>	
Max. PV Input Power (W)	13200
Max. PV Input Voltage (V)	500
Start-up Voltage (V)	60
MPPT Voltage Range (V)	60-425
Max. Input Current (A)	20/20
Number of MPPT	2
Number of Strings per MPPT	1
<b>AC Input</b>	
Nominal Input Voltage (Vac)	230
Input Voltage Range (Vac)	90-280
Max. AC Input Current (A)	50 (Bypass Mode)
Nominal Operating Frequency (Hz)	50/60
<b>AC Output</b>	
Nominal AC Output Power (W)	6600
Max. Output Apparent Power (VA)	6600
Nominal AC Output Voltage (Vac)	220/230/240 (L+N+PE)
Max. Output Current (A)	30
Total Current Harmonic Distortion	$< 3\%$
Nominal AC Frequency (Hz)	50/60
Switch Time (ms)	$< 20$ (Appliances)
Surge Power (VA)	13200 @ 5s
Overload Capability	110% $\leq$ Load $< 140\%$ @ 10s 140% $\leq$ Load $< 200\%$ @ 7s
<b>Battery</b>	
Battery Type	Lead-acid/Lithium-ion/User Defined
Rated Voltage (V)	48
Battery Voltage Range (V)	40-60
Max. Solar Charging Current (A)	140
Max. Mains/Generator Charging Current (A)	140
Max. Discharging Current (A)	140
<b>General</b>	
Dimensions (L*W*H, mm)	309*180*420
Net Weight (kg)	15
Operating Temperature Range (°C)	-40 ~ +60 ( $> 45^\circ\text{C}$ Power Derating)
Max. Operating Altitude (m)	3000 ( $> 2000\text{m}$ Power Derating)
Communication	Wi-Fi/RS485/CAN/Dry Contact
Diesel Generator Support	Yes
Smart Load Support	Yes
Parallel Capability	Maximum 12 units
Cooling Method	Intelligent Fan Cooling
Noise (dB)	$< 55$
Authentication Level	IEC62109-1, IEC62109-2, IEC61683
<b>Protection</b>	
Ingress Protection	IP66
Overvoltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: TYPE II; AC: TYPE III

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