

Liwal Hybrid Inverter IP 65 Series



Colorful Touch LCD



AC Coupling to Retrofit Existing Solar System



Max. 16 pcs Parallel, Multiple Parallel Battery



Max. charging current of 135A



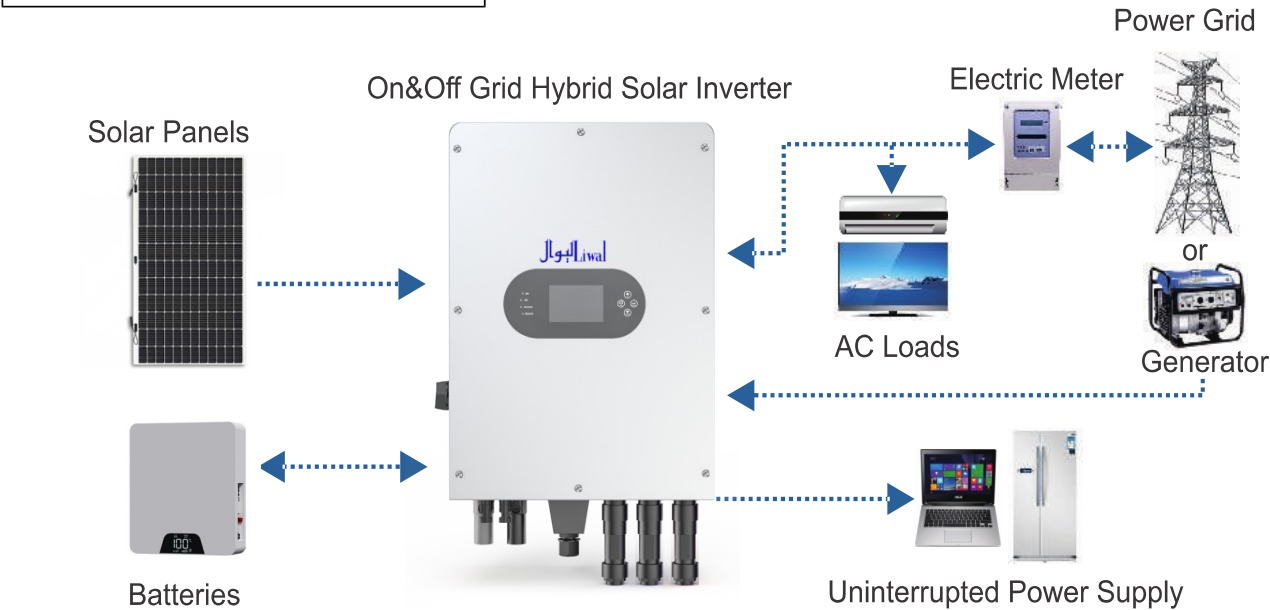
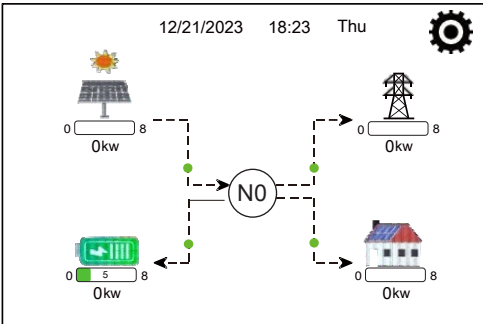
6 time periods for charging or discharging



Supports Diesel Generator for charging



LCD DISPLAY ICONS



Technical Parameters

Model	LH50K65P
PV String Input Data	
Max. DC Input Power (W)	65000
Rated PV Input Voltage (V)	1000
Start-up Voltage (V)	180
MPPT Voltage Range (V)	150-850
Full Load MPPT Voltage Range (V)	450-850
Rated DC Input Voltage (V)	600
PV Input Current (A)	36+36+36+36 (Max 55)
No.of MPPT Trackers	4
No.of Strings per MPPT Tracker	2+2+2+2
AC Output Data	
Rated AC Output Power (W)	50000
Max AC Output Power (W)	55000
AC Output Rated Current (A)	76
Max AC Output Current (A)	83.6
Max.Continuous AC Passthrough (A)	197
Peak Power (off grid)	1.5 times of rated power, 10 S
Power Factor	0.8 leading - 0.8 lagging
AC Output Frequency and Voltage	50/60Hz; 220/230Vac
Grid Type	Three Phase
Total Harmonic Distortion (THDi)	<3% (of nominal power)
DC Current Injection	<0.5% In
Battery Input Data	
Battery Type	Lithium-ion
Battery Voltage Range (V)	160-700
Max. Charging Current (A)	50+50
Max. Discharging Current (A)	50+50
Number of Battery Input	2
Charging Curve	-
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.99%
Protection	
Anti-islanding Protection	Yes
PV String Input Reverse Polarity Protection	Yes
Insulation Resistor Detection	Yes
Residual Current Monitoring Unit	Yes
Output Over Current Protection	Yes
Output Shorted Protection	Yes
Surge Protection	Yes
Over Voltage Category	DC Type II / AC Type III
Certifications and Standards	
Grid Regulation	IEC61727/IEC 62116,EN 50549-1
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2
General Data	
Operating Temperature Range (°C)	-40-60°C, >45°C Derating
Cooling	Smart Cooling
Noise (dB)	<65 dB
Communication with BMS	CAN
Monitoring mode	WIFI , APP
Weight (kg)	80
Size (W x H x D mm)	527×894×294 (Excluding Connectors and Brackets)
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years (10Years Optional)

Note: 1. Specifications are subject to change without prior notice; 2. Special voltage and power requirements can be customized according to the actual situation of users.