

DYNNESS

LS Series NEW

LV Single Phase Hybrid Inverter

On-grid Outpt: 3/3.6/5/6/8kWac

Max.16 pcs parallel for on-grid and off-grid operation



200% Backup overloading for 10s



Use "AI correct" function to fix the CT direction and avoid rework



110% Continuous AC overloading, up to **2 times** DC/AC ratio



Generator Integration Ability



20A PV inputs

Compatible with 182/210mm high-power panels



Colorful touch LCD, easy operation and configuration



Seamless auto switching

<4ms

SPECIFICATION

Model	D3.0K-LS		D3.6K-LS	D5.0K-LS	D6.0K-LS	D8.0K-LS	
Battery Input Data							
Battery Type	Lead-acid/Li-Ion						
Battery Voltage Range(V)	40~60						
Nominal Battery Voltage (V)	48	48	48	48	48	48	
Max.Charge/Discharge Current(A)	70	90	120	140	160		
Max.Charge/Discharge Power(W)	3000/3300	3600/3960	5000/5500	6000/6600	8000/8800		
PV String Input Data							
Max.PV Input Power(W)	6000	7200	10000	12000	16000		
Max.PV Input Voltage(V)	600						
Working Voltage Range(V)	50~550						
First Feed-in Voltage(V)	60						
MPPT Range For Nominal Power(V)	100~500	120~500	150~500	180~500	180~500		
Nominal PV Input Voltage(V)	380						
Max.Input Currrent(A)	20/20	20/20	20/20	20/20	20/40		
Max.Short Current(A)	27/27	27/27	27/27	27/27	27/54		
No.of MPP Trackers	2	2	2	2	2		
Strings per MPP Tracker	1	1	1	1	1+2		
AC Output Data(On-grid Port)							
Nominal Power Output To Grid(VA)	3000	3600	5000	6000	8000		
Max.Power Output To Grid(VA) ^[1]	3300	3960	5500	6600	8800		
Max.Power From Grid (VA)	8400	8400	10000	12000	12000		
Nominal Output Voltage(V)	220/230/240,L/N/PE						
Nominal Output Frequency(Hz)	50/60						
Nominal AC Current To Grid(A)	13.7/13.1/12.5	16.4/15.7/15	22.8/21.8/20.9	27.3/26.1/25	36.4/34.8/33.4		
Max.AC Current To Grid(A)	15	18	25	30	40		
Max.AC Current From Grid(A)	35	35	40	50	50		
Output Power Factor	Adjustable from 0.8 leading to 0.8 lagging						
Output THDi (Nominal Power)	<3%						
AC Output Data (Back-up Port)							
Max.Continuous Output Power(VA)	3300	3960	5500	6600	8800		
Peak Output Power(VA) ^[2]	6000 @10s	7200 @10s	10000 @10s	12000 @10s	16000 @10s		
Max.Output Current (A)	15	18	25	30	40		
Nominal Output Voltage(Vac)	220/230/240,L/N/PE						
Nominal Output Frequency(Hz)	50/60						
Output THDv (@Linear Load)	<3%						
Switch time	<4ms						
AC Input Data (Generator Port/Load Control Port)							
Nominal Input Apparent Power(VA)	3000	3600	5000	6000	8000		
Max. Input Apparent Power(VA)	8400	8400	10000	12000	12000		
Max. AC Input Current(A)	35	35	40	50	50		
Nominal Input Voltage(V)	220/230/240,L/N/PE						
Nominal AC Generator Frequency(Hz)	50/60						
Efficiency							
Max.efficiency	97.60%						
Euro.efficiency	96.50%						
Protection							
Anti-island Protection	Integrated						
PV Insulation Resistance Detection	Integrated						
PV Reverse Protection	Integrated						
Residual Current Monitoring Unit	Integrated						
AC Over Current/Voltage Protection	Integrated						
DC Switch(PV)	Integrated						
Surge Protection	DC TypeⅢ/AC TypeⅢ						
Communication Interface							
Battery BMS	CAN						
EMS(Modbus)	RS485						
Meter(Outside)	RS485						
RCR/DRED	YES(DI)						
Remote Shut Down	YES(DI)						
Dry-Point	YES(DO)						
Cloud	Wi-Fi, LAN						
Display/User Interface	LED/LCD/APP						
General Data							
Operating Temperature Range(°C)	-30~60						
Relative Humidity(%)	0~100%						
Operating Altitude(m)	≤3000						
Cooling	Natural Convection					Intelligent Air Cooling	
Noise(dB)	<30					40	
Weight(kg)	17						
Size(W/H/D)(mm)	501*586*193						
Installation	Wall-Mounted						
Protection Degree	IP66						
Certifications&Standards							
Grid Regulation	EN50549, NRS097, G98, G99, IEC61727,IEC62116						
Safety Regulation	IEC/EN62109-1&2						
EMC	IEC/EN61000-6-1/2/3/4						

[1] According to the local grid redgulation

[2] Can be reached only if PV and battery power is enough

