

An ISO 9001 : 2015 Company

DURASOL®
Energi
LET'S IMPROVE THE QUALITY OF LIFE

Pure Hybrid Inverter



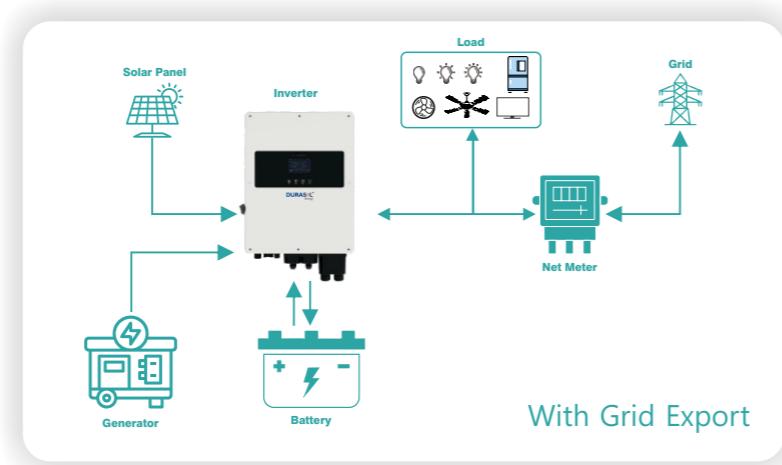
Single Phase Hybrid Inverter

Technical Data

Model	DUS-5G2-LE	DUS-6G2-LE	DUS-8G2-LE	DUS-10G2-LE
Battery Input Data				
Battery Type	Lead-acid or Li-ion			
Battery Voltage Range (V)	40-60			
Max. Charge Current (A)	120	140	190	210
Max. Discharge Current (A)	120	140	190	210
Charging Curve	3 Stages/Equalization			
External Temperature Sensor	Optional			
Charging Strategy for Li-Ion Battery	Self-Adaption to BMS			
PV String Input Data				
Max. DC Input Power (W)	7,500	9,000	12,000	15,000
PV Input Voltage (V)	370(125~500)			
MPPT Range (V)	150~425			
Start-up Voltage (V)	120			
PV Input Current (A)	17+17	17+17	26+26	26+26
Max. PV Isc (A)	20+20	20+20	34+34	34+34
No. of MPPT Trackers	2	2	2	2
No. of String Per MPPT Tracker	1+1	1+1	2+2	2+2
AC Output Data				
Rated AC Output Power and UPS Power (W)	5,000	6,000	8,000	10,000
Max. AC Output Power (W)	6,000	7,200	9,600	12,000
Peak Power(off grid)	2 times of rated power, 10s	1.8 times of rated power, 10s		
AC Output Rated Current (A)	22.7/21.7	27.3/26.1	34.5/33	45.5/43.5
Max. AC Current (A)	25/23.9	30/28.7	40/38.3	50.0/47.8
Max. Continuous AC Passthrough (A)	40	40	50	60
Power Factor	0.8 leading to 0.8 lagging			
Output Frequency and Voltage	50/60Hz,220/230Vac(single phase)			
Grid Type	single phase			
Current Harmonic Distortion	THD<3%(Linear load <1.5%)			
Efficiency				
Max. Efficiency	97.90%			
Euro Efficiency	96.90%			
MPPT Efficiency	99.90%			
Protection				
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection			
PV ARC Fault Detection	Optional			
Output Over Voltage Protection	DC Type II/AC Type III			
Certification and Standards				
Grid Regulation	CEI 0-21,VDE-AR-N 4105,NRS 097,IEC61727,G99,G98,VDE 0126-1-1,RD 1699,C10-11			
EMC/Safety Regulation	IEC/EN 62109-1 IEC/EN 62109-2,IEC/EN 61000-6-1,IEC/EN 61000-6-2,IEC/EN 61000-6-3, IEC/EN 61000-6-4			
General Data				
Operating Temperature Range(°C)	-45~60 °C Derating			
Cooling	Smart cooling			
Noise(dB)	≤45			
Communication with BMS	CAN, RS485 34			
Weight (kg)	34			
Dimensions (mm)	514W×749H×291D			
Protection Degree	IP65			
Installation Style	Wall-mounted			



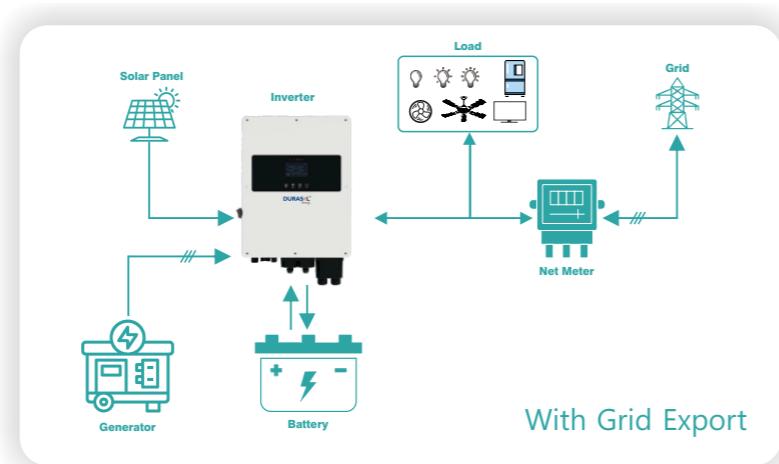
- Support different power inverter parallel connection
- 20 Pcs inverter parallel for off-grid operation
- Support on/off grid mode switch, EPS output
- Colourful 5-inch touch LCD
- Support battery charging/discharging according to the time setting.
- Independent AC input port for diesel generator
- Support storing energy from diesel generator
- ARC fault detection optional
- IP65 protection degree



Triple Phase Hybrid Inverter



- Support different power inverter parallel connection
- 100% unbalanced output, each phase max. output upto 50% rated power
- 20 Pcs inverter parallel for off-grid operation
- Support on/off grid mode switch, EPS output
- Colourful 7-inch touch LCD
- Support battery charging/discharging according to the time setting
- Independent AC input port for diesel generator
- Support storing energy from diesel generator
- ARC fault detection optional
- IP65 protection degree



Technical Data

Model	DUS-5G1-LE	DUS-6G1-LE	DUS-8G1-LE	DUS-10G1-LE	DUS-12G1-LE	DUS-14G1-LE
Battery Input						
Battery Type	Lead-acid or Li-ion					
Battery Voltage Range (V)	40-60					
Max. Charge Current (A)	120	130	200	220	250	280
Max. Discharge Current (A)	120	130	200	220	250	280
Charging Curve	3 Stages/Equalization					
External Temperature Sensor	Optional					
Charging Strategy for Li-ion Battery	Self-Adaption to BMS					
PV String Input						
Max. DC Input Power (W)	7,500	9,000	12,000	15,000	18,000	20,000
PV Input Voltage (V)	650(160~800)					
MPPT Range (V)	200~700					
Full Load DC Voltage Range (V)	260~650					
Start-up Voltage (V)	160					
PV Input Current (A)	17+17	17+17	17+17	26+17	26+17	26+17
Max. PV Isc (A)	20+20	20+20	20+20	34+20	34+20	34+20
No. of MPPT Trackers	2					
No. of Strings per MPPT Trackers	1+1	1+1	1+1	2+1	2+1	2+1
AC Output						
Rated AC Output and UPS Power (W)	5,000	6,000	8,000	10,000	12,000	14,000
Max. AC Output Power (W)	6,000	7,200	9,600	12,000	13,200	15,400
Peak PoWer(off grid)	2 times of rated power, 10s					
AC Output Rated Current (A)	7.6/7.3	9.1/8.7	12.1/11.6	15.2/14.5	18.2/17.4	21.1/20.3
Max. AC Current (A)	11.4/10.9	13.6/13	18.2/17.4	22.7/21.7	27.3/26.1	27.6/26.4
Max. Continuous AC Passthrough (A)	30	30	30	50	50	50
Power Factor	0.8 leading to 0.8 lagging					
Output Frequency and Voltage (V)	50/60Hz, 380/400Vac(Triple phase)					
Grid Type	Three phase					
Current Harmonic Distortion	THD<3%(Linear load<1.5%)					
Efficiency						
Max. Efficiency	97.90%					
Euro Efficiency	96.90%					
MPPT Efficiency	99.90%					
Protection						
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection					
PV ARC Fault Detection	Optional					
Output Over Voltage Protection	DC Type II/AC Type III					
Certifications and Standards						
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699,C10-11					
Safety Regulation	IEC/EN62109-1, IEC/EN62109-2					
EMC	IEC/EN 61000-6-1,IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4					
General Data						
Operating Temperature Range (°C)	-45~60, >45 Derating					
Cooling	Smart Cooling					
Noise (dB)	≤45					
Communication with BMS	CAN, RS485					
Weight (kg)	38	40	42	44	44	45
Dimensions (mm)	510W×630H×290D					
Protection Degree	IP65					
Installation Style	Wall-mounted					



OUR COMPLETE RANGE OF ENERGY SOLUTIONS



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