

EMPOWERING GREEN ENERGY

ONGRID INVERTER



**In House
MFG. Unit**



**3 LEVEL
Service Support**





UTL in 2024-2025

4

Manufacturing Units

29

Years Old Brand

65+

Strong R&D Team

602+

India Wide Service Engineer

1100+

“Shoppes” Franchisee in INDIA

725+

Distributor in INDIA

5546+

Dealers in INDIA

5000000+

Satisfied UTL Consumers

15.4 Bn

UTL Turnover



FEATURES



Low startup
Voltage



PV overload
upto 30%



DC switch available on
above 4.2kW



Wide AC Voltage Range
(160V to 290V)



Working Temperature
upto 60°C



AC & DC Side Type-II



Less Noise
Emission >25dB



Remote Monitoring
through
UTL SOLAR App



High MPPT Efficiency
upto 99%



Power Export
Limiting



Easy Installation
Low Maintenance

Model	1.5kW	2kW	2.5kW	3kW	3.3kW	3.6kW
Input Side						
Max. DC Input Power (kW)	2	2.6	3.3	3.9	4.29	4.6
Max. DC Input Voltage (V)	550					
Start-up DC Input Voltage (V)	80					
MPPT Operating Range (V)	70~500					
Max. DC Input Current (A)	20					
Max. Short Circuit Current (A)	30					
No.of MPP Trackers	1					
No.of Strings per MPP Tracker	1					
Output Side						
Rated Output Power (kW)	1.5	2	2.5	3	3.3	3.6
Max. Active Power (kW)	1.65	2.2	2.75	3.3	3.6	3.6
Nominal Output Voltage / Range (V)	L/N/PE 220/230V (Optional)					
Rated Grid Frequency (Hz)	50 / 60 (Optional)					
Operating Phase	Single phase					
Rated AC Grid Output Current (A) (230V)	6.5	8.7	10.9	13	14.3	15.65
Max. AC Output Current (A) (230V)	7.2	9.6	12	14.3	15.65	15.65
Output Power Factor	1 (0.8 Lead to 0.8 Lag)					
Grid Current THD	<3%					
DC Injection Current (mA)	<0.5%					
Grid Frequency Range	50/60Hz (±5)					
Efficiency						
Max. Efficiency	97.3%			97.5%		
Euro Efficiency	97.1%			97.3%		
MPPT Efficiency	>99%					
Protection						
DC Reverse-Polarity Protection	Yes					
AC Short Circuit Protection	Yes					
AC Output Overcurrent Protection	Yes					
Output Overvoltage Protection	Yes					
Insulation Resistance Protection	Yes					
Ground Fault Monitoring	Yes					
Anti-islanding Protection	Yes					
Temperature Protection	Yes					
Integrated DC Switch	Yes (Optional)					
Remote software update	Yes					
Remote change of operating parameters	Yes					
Surge protection	DC Type II / AC Type II					
General Data						
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25~65°C, >45°C derating					
Ingress Protection	IP65					
Noise Emission (Typical)	<35 dB					
Cooling Concept	Natural cooling					
Max. Operating Altitude Without Derating	2000m					
Warranty	10 Years, 1 Year on Accessories (Logger & ZED)					
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11					
Operating Surroundings Humidity	0-100%					
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					
Dimension (MM)	280x272x184					
Weight (Kg)	5					
Features						
DC Connection	MC-4 mateable					
AC Connection	IP65 rated plug					
Display	LCD1602					
Interface	RS485/RS232/Wifi/LAN					

*Specification are subject to change without prior notice due to constant improvement in design & technology.

Model	4kW	4.6kW	5kW	5.3kW	6kW		
Input Side							
Max. DC Input Power (kW)	5.2	5.5	6.5	6.5	7.8		
Max. DC Input Voltage (V)	550			550/600			
Start-up DC Input Voltage (V)	80			80			
MPPT Operating Range (V)	70~500			70~550			
Max. DC Input Current (A)	20/20		20	20/20	20	20/20	
Max. Short Circuit Current (A)	30/30		30	30/30	30	30/30	
No.of MPP Trackers	1		1	2	2	1	2
No.of Strings per MPP Tracker	1						
Output Side							
Rated Output Power (kW)	4	4.6	5	5.3	6		
Max. Active Power (kW)	4.4	4.6	5.5	5.5	6/6.6		
Nominal Output Voltage / Range (V)	L/N/PE 220/230V (Optional)						
Rated Grid Frequency (Hz)	50 / 60 (Optional)						
Operating Phase	Single phase						
Rated AC Grid Output Current (A) (230V)	17.4	20	21.73	23.04	26.08		
Max. AC Output Current (A) (230V)	19.13	20	23.91	23.91	26.08		
Output Power Factor	1 (0.8 Lead to 0.8 Lag)						
Grid Current THD	<3%						
DC Injection Current (mA)	<0.5%						
Grid Frequency Range	50/60Hz (±5)						
Efficiency							
Max. Efficiency	97.5%						
Euro Efficiency	97.3%						
MPPT Efficiency	>99%						
Protection							
DC Reverse-Polarity Protection	Yes						
AC Short Circuit Protection	Yes						
AC Output Overcurrent Protection	Yes						
Output Overvoltage Protection	Yes						
Insulation Resistance Protection	Yes						
Ground Fault Monitoring	Yes						
Anti-islanding Protection	Yes						
Temperature Protection	Yes						
Integrated DC Switch	Yes (Optional)						
Remote software update	Yes						
Remote change of operating parameters	Yes						
Surge protection	DC Type II / AC Type II						
General Data							
Topology	Transformerless						
Internal Consumption	<1W (Night)						
Running Temperature	-25~65°C, >45°C derating						
Ingress Protection	IP65						
Noise Emission (Typical)	<35 dB						
Cooling Concept	Natural cooling						
Max. Operating Altitude Without Derating	2000m						
Warranty	10 Years, 1 Year on Accessories (Logger & ZED)						
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11						
Operating Surroundings Humidity	0-100%						
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						
Dimension (MM)	280x272x184	330x323x190					
Weight (Kg)	5	7.5					
Features							
DC Connection	MC-4 mateable						
AC Connection	IP65 rated plug						
Display	LCD1602						
Interface	RS485/RS232/Wifi/LAN						

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Model	5kW	6kW	8kW	10kW	12kW	15kW
Input Side						
Max. DC Input Power (kW)	6.5	7.8	10.4	13	15.6	19.5
Max. DC Input Voltage (V)	1100					
Start-up DC Input Voltage (V)	180					
MPPT Operating Range (V)	200~1000					
Max. DC Input Current (A)	(20+20)					(20+30)/(20+26)
Max. Short Circuit Current (A)	(30+30)					(30+36)/(30+39)
No.of MPP Trackers	2					
No.of Strings per MPP Tracker	1					1+2
Output Side						
Rated Output Power (kW)	5	6	8	10	12	15
Max. Active Power (kW)	5.5	6.6	8.8	11	13.2	16.5
Nominal Output Voltage / Range (V)	3L/N/PE 220/380V, 230/400V					
Rated Grid Frequency (Hz)	50 / 60 (Optional)					
Operating Phase	Three phase					
Rated AC Grid Output Current (A)	7.2	8.7	11.6	14.5	17.4	21.7
Max. AC Output Current (A)	8	9.6	12.8	15.9	19.1	23.9
Output Power Factor	1 (0.8 Lead to 0.8 Lag)					
Grid Current THD	<3%					
DC Injection Current (mA)	<0.5%					
Grid Frequency Range	50/60Hz (±5)					
Efficiency						
Max. Efficiency	98.2%		98.3%			98.5%
Euro Efficiency	97.26%		97.8%			98%
MPPT Efficiency	>99%					
Protection						
DC Reverse-Polarity Protection	Yes					
AC Short Circuit Protection	Yes					
AC Output Overcurrent Protection	Yes					
Output Overvoltage Protection	Yes					
Insulation Resistance Protection	Yes					
Ground Fault Monitoring	Yes					
Anti-islanding Protection	Yes					
Temperature Protection	Yes					
Integrated DC Switch	Yes					
Remote software update	Yes					
Remote change of operating parameters	Yes					
Surge protection	DC Type II / AC Type II					
General Data						
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25~65℃, >45℃ derating					
Ingress Protection	IP65					
Noise Emission (Typical)	<30 dB					<40 dB
Cooling Concept	Natural cooling					Smart cooling
Max. Operating Altitude Without Derating	2000m					
Warranty	10 Years, 1 Year on Accessories (Logger & ZED)					
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11					
Operating Surroundings Humidity	0-100%					
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					
Dimension (MM)	330x457x185					333x472x202
Weight (Kg)	10					15
Features						
DC Connection	MC-4 mateable					
AC Connection	IP65 rated plug					
Display	LCD1602					
Interface	RS485/RS232/Wifi/LAN					

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Model	20kW	25kW	30kW	40kW	50kW	60kW
Input Side						
Max. DC Input Power (kW)	26	32.5	39	52	65	78
Max. DC Input Voltage (V)	1100					
Start-up DC Input Voltage (V)	250					
MPPT Operating Range (V)	200~850					
Max. DC Input Current (A)	(40*2)/(30*2)	(30+30)/(40+30)	(40*2+20)/(40*2)	(40*2+20*2)/(40*3)	(40*2+20*2)/(40*4)	45*3/40*4
Max. Short Circuit Current (A)	(39*2)/(40*2)	(64+64)/(60+40)	(50*2+24)/(64*2)	(50*2+24*2)/(64*3)	(50*2+30*2)/(64*4)	56*3/64*4
No.of MPP Trackers	2		3/2	4/3	4	3/4
No.of Strings per MPP Tracker	2		2+2+1/3	2+2+1+1/3	2+2+1+1/4	3/4
Output Side						
Rated Output Power (kW)	20	25	30	40	50	60
Max. Active Power (kW)	22	27.5	33	44	55	66
Nominal Output Voltage / Range (V)	3L/N/PE 220/380V, 230/400V					
Rated Grid Frequency (Hz)	50 / 60 (Optional)					
Operating Phase	Three phase					
Rated AC Grid Output Current (A)	29	36.2	43.5	58	72.4	87
Max. AC Output Current (A)	31.9	39.9	7.9	63.8	79.7	95.7
Output Power Factor	1 (0.8 Lead to 0.8 Lag)					
Grid Current THD	<3%					
DC Injection Current (mA)	<0.5%					
Grid Frequency Range	50/60Hz (±5)					
Efficiency						
Max. Efficiency	98.6%			98.7%		
Euro Efficiency	97.8%			98%		
MPPT Efficiency	>99%					
Protection						
DC Reverse-Polarity Protection	Yes					
AC Short Circuit Protection	Yes					
AC Output Overcurrent Protection	Yes					
Output Overvoltage Protection	Yes					
Insulation Resistance Protection	Yes					
Ground Fault Monitoring	Yes					
Anti-islanding Protection	Yes					
Temperature Protection	Yes					
Integrated DC Switch	Yes					
Remote software update	Yes					
Remote change of operating parameters	Yes					
Surge protection	DC Type II / AC Type II					
General Data						
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25~65℃, >45℃ derating					
Ingress Protection	IP65					
Noise Emission (Typical)	<40 dB			<50 dB		
Cooling Concept	Smart cooling					
Max. Operating Altitude Without Derating	2000m					
Warranty	10 Years, 1 Year on Accessories (Logger & ZED)					
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11					
Operating Surroundings Humidity	0-100%					
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					
Dimension (MM)	362x527x220		326x577x215	647x537x303		
Weight (Kg)	20		25.5	44.5		
Features						
DC Connection	MC-4 mateable					
AC Connection	IP65 rated plug					
Display	LCD1602			LCD 240 × 160		
Interface	RS485/RS232/Wifi/LAN					

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Model	70kW	75kW	80kW	90kW	100kW	110kW
Input Side						
Max. DC Input Power (kW)	105	112.5	120	135	150	165
Max. DC Input Voltage (V)	1100					
Start-up DC Input Voltage (V)	250					
MPPT Operating Range (V)	200~850					
Max. DC Input Current (A)	(40*4)/(40*4+20*4)			(40*6)/(40*4+20*4)		
Max. Short Circuit Current (A)	(64*4)/(50*4+30*4)			(64*6)/(50*4+30*4)		
No.of MPP Trackers	4/8			6/8		
No.of Strings per MPP Tracker	4/2+2+1+1+2+2+1+1			4/2+2+1+1+2+2+1+2		
Output Side						
Rated Output Power (kW)	70	75	80	90	100	110
Max. Active Power (kW)	77	82.5	88	99	110	121
Nominal Output Voltage / Range (V)	3L/N/PE 220/380V, 230/400V					
Rated Grid Frequency (Hz)	50 / 60 (Optional)					
Operating Phase	Three phase					
Rated AC Grid Output Current (A)	106.1/101.5	113.6/108.7	121.2/115.9	136.4/130.4	151.5/144.9	166.7/159.4
Max. AC Output Current (A)	116.7/111.6	125/119.6	133.3/127.5	150/143.5	166.7/159.4	183.3/175.4
Output Power Factor	1 (0.8 Lead to 0.8 Lag)					
Grid Current THD	<3%					
DC Injection Current (mA)	<0.5%					
Grid Frequency Range	50/60Hz (±5)					
Efficiency						
Max. Efficiency	98.7%					
Euro Efficiency	98.3%					
MPPT Efficiency	>99%					
Protection						
DC Reverse-Polarity Protection	Yes					
AC Short Circuit Protection	Yes					
AC Output Overcurrent Protection	Yes					
Output Overvoltage Protection	Yes					
Insulation Resistance Protection	Yes					
Ground Fault Monitoring	Yes					
Anti-islanding Protection	Yes					
Temperature Protection	Yes					
Integrated DC Switch	Yes					
Remote software update	Yes					
Remote change of operating parameters	Yes					
Surge protection	DC Type II / AC Type II					
General Data						
Size (mm)	838Wx568Hx323D					
Weight (kg)	81					
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25~65°C, >45°C derating					
Ingress Protection	IP65					
Noise Emission (Typical)	<50 dB	<55 dB				
Cooling Concept	Smart cooling					
Max. Operating Altitude Without Derating	2000m					
Warranty	10 Years, 1 Year on Accessories (Logger & ZED)					
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11					
Operating Surroundings Humidity	0-100%					
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					
Dimension (MM)	838x568x323					
Weight (Kg)	81					
Features						
DC Connection	MC-4 mateable					
AC Connection	IP65 rated plug					
Display	LCD 240 × 160					
Interface	RS485/RS232/Wifi/LAN					

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Model	120kW	125kW	130kW	135kW	136kW
Input Side					
Max. DC Input Power (kW)	180	187.5	195	202.5	204
Max. DC Input Voltage (V)	1100				
Start-up DC Input Voltage (V)	250				
MPPT Operating Range (V)	200-1000				
Max. DC Input Current (A)	(40*8)/(30*10)				
Max. Short Circuit Current (A)	(64*8)/(45*10)				
No.of MPP Trackers	8/10				
No.of Strings per MPP Tracker	4+4+4+4+4+4+4+4/2+2+2+2+2+2+2+2				
Output Side					
Rated Output Power (kW)	120	125	130	135	136
Max. Active Power (kW)	132	135	135	135	136
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)				
Rated Grid Frequency (Hz)	50 / 60 (Optional)				
Operating Phase	Three Phase				
Rated AC Grid Output Current (A)	181.9/174	189.4/181.2	197/188.5	204.6/195.7	206.1/197.2
Max. AC Output Current (A)	200/191.4	204.6/195.7	204.6/195.7	204.6/195.7	206.1/197.2
Output Power Factor	>0.99				
Total Harmonics Current Distortion (THDi)	<3%				
DC Injection Current (mA)	<0.5%				
Grid Frequency Range	45~55 or 55~65 (Optional)				
Efficiency					
Max. Efficiency	98.8%				
Euro Efficiency	98.3%				
MPPT Efficiency	>99%				
Protection					
DC Reverse-Polarity Protection	Yes				
AC Short Circuit Protection	Yes				
AC Output Overcurrent Protection	Yes				
Output Overvoltage Protection	Yes				
Insulation Resistance Protection	Yes				
Ground Fault Monitoring	Yes				
Anti-islanding Protection	Yes				
Temperature Protection	Yes				
Integrated DC Switch	Yes				
Remote Software Upload	Yes				
Remote Change of Operating Parameters	Yes				
Surge Protection	DC Type II / AC Type II				
General Data					
Cabinet Size (WxHxD mm)	1006×516×325.5 (Excluding Connectors and Brackets)				
Weight (kg)	103				
Topology	Transformerless				
Internal Consumption	<1W (Night)				
Running Temperature	-25-60°C, >45°C Derating				
Ingress Protection	IP65				
Noise Emission (Typical)	≤65 dB				
Cooling Concept	Smart Cooling				
Permissible Altitude (m)	2000m				
Designed Lifetime	>20 Years				
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, CEI 0-16, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105, VDE-AR-N 4110				
Operating Surroundings Humidity	0-100%				
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
Dimension (MM)	1006x516x325.5				
Weight (Kg)	103				
Features					
Display	LCD 240 × 160				
Interface	RS485/RS232/Wifi/LAN				

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Model	HYB-3-GXLS1		HYB-3.6-GXLS2		HYB-5-GXLS2		HYB-6-GXLS2	
Battery Input Data								
Battery Type	Lead-acid or Lithium-ion							
Battery Voltage Range(V)	40-60							
Max. Charging Current(A)	70		90		120		135	
Max. Discharging Current(A)	70		90		120		135	
Charging Strategy for Li-ion Battery	Self-adaption to BMS							
Number of Battery Input	1							
PV String Input Data								
Max. PV Input Power(W)	4800		5760		8000		9600	
Max. PV Input Voltage(V)	500							
Start-up Voltage(V)	125							
PV Input Voltage Range(V)	125-500							
MPPT Voltage Range(V)	150-425							
Full Load MPPT Voltage Range(V)	300-425							
Rated PV Input Voltage(V)	370							
Max. Operating PV Input Current(A)	18		18+18					
Max. Input Short-Circuit Current(A)	27		27+27					
No. of MPP Trackers/No. of Strings MPP Tracker	1/1		2/1+1					
Max. Inverter Backfeed Current to The Array	0							
AC Input/Output Data								
Rated AC Input/Output Active Power(W)	3000		3600		5000		6000	
Max. AC Input/Output Apparent Power(VA)	3300		3960		5500		6600	
Peak Power (off-grid)(W)	2 times of rated power, 10s							
Rated AC Input/Output Current(A)	13.7/13.1		16.4/15.7		22.8/21.8		27.3/26.1	
Max. AC Input/Output Current(A)	15/14.4		18/17.3		25/24		30/28.7	
Max. Continuous AC Passthrough (grid to load)(A)	35						40	
Rated Input/Output Voltage/Range(V)	220V/230V 0.85Un-1.1Un							
Grid Connection Form	L+N+PE							
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz							
Power Factor Adjustment Range	0.8 leading-0.8 lagging							
Total Current Harmonic Distortion THDi	<3% (of nominal power)							
DC Injection Current	<0.5%In							
Efficiency								
Max. Efficiency	97.60%							
Euro Efficiency	96.50%							
MPPT Efficiency	>99%							
Equipment Protection								
DC Polarity Reverse Connection Protection	Yes							
AC Output Overcurrent Protection	Yes							
AC Output Overvoltage Protection	Yes							
AC Output Short Circuit Protection	Yes							
Thermal Protection	Yes							
DC Terminal Insulation Impedance Monitoring	Yes							
DC Component Monitoring	Yes							
Ground Fault Current Monitoring	Yes							
Arc fault circuit interrupter (AFCI)	Optional							
Power Network Monitoring	Yes							
Island Protection Monitoring	Yes							
Earth Fault Detection	Yes							
DC Input Switch	Yes							
Overvoltage Load Drop Protection	Yes							
Residual Current (RCD) Detection	Yes							
Surge Protection Level	TYPE II(DC), TYPE II(AC)							
Interface								
Display	LCD+LED							
Communication Interface	RS232, RS485, CAN							
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)							
General Data								
Operating Temperature Range	-40 to +60℃, >45℃ Derating							
Permissible Ambient Humidity	0-100%							
Noise	<30 dB							
Ingress Protection(IP) Rating	IP 65							
Inverter Topology	Non-Isolated							
Over Voltage Category	OVC II(DC), OVC III(AC)							
Cabinet size(W*H*D) [mm]	330W×433H×229D (Excluding connectors and brackets)							
Weight(kg)	17							
Warranty	Standard 5 years, extended warranty							
Type of Cooling	Intelligent Cooling		Intelligent Air Cooling					
Grid Regulation	IEC 61727,IEC 62116,CEI 0-21,EN 50549,NRS 097,RD 140, UNE 217002,OVE-Richtlinie R25,G99,VDE-AR-N 4105							
Safetv EMC/Standard	IEC/EN 61000-6-1/2/3/4, IS 16221/IEC 62109 , IS 16169/ IEC 62116							

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Model	HYB-5-GXT2		HYB-6-GXLT2	HYB-8-GXT2	HYB-10-GXT2	HYB-12-GXT2
Battery Input Data						
Battery Type	Lead-acid or Lithium-ion					
Battery Voltage Range(V)	40-60					
Max. Charging Current(A)	120	135	190	210	240	
Max. Discharging Current(A)	120	135	190	210	240	
Charging Strategy for Li-ion Battery	Self-adaption to BMS					
Number of Battery Input	1					
PV String Input Data						
Max. PV Input Power(W)	7500	9000	12000	15000	18000	
Max. PV Input Voltage(V)	800					
Start-up Voltage(V)	160					
PV Input Voltage Range(V)	160-800					
MPPT Voltage Range(V)	200-650					
Full Load MPPT Voltage Range(V)	250-650					350-650
Rated PV Input Voltage(V)	550					
Max. Operating PV Input Current(A)	20+20					
Max. Input Short-Circuit Current(A)	30+30					
No. of MPP Trackers/No. of Strings MPP Tracker	2/1+1					
Max. Inverter Backfeed Current to The Array	0					
AC Input/Output Data						
Rated AC Input/Output Active Power(W)	5000	6000	8000	10000	12000	
Max. AC Input/Output Apparent Power(VA)	5500	6600	8800	11000	13200	
Peak Power (off-grid)(W)	2 times of rated power, 10s					
Rated AC Input/Output Current(A)	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	18.2/17.4	
Max. AC Input/Output Current(A)	8.4/8	10/9.6	13.4/12.8	16.7/16	20/19.2	
Max. Continuous AC Passthrough (grid to load)(A)	45					
Rated Input/Output Voltage/Range(V)	220/380V, 230/400V 0.85Un-1.1Un					
Grid Connection Form	3L+N+PE					
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz					
Power Factor Adjustment Range	0.8 leading-0.8 lagging					
Total Current Harmonic Distortion THDi	<3% (of nominal power)					
DC Injection Current	<0.5%In					
Efficiency						
Max. Efficiency	97.60%					
Euro Efficiency	97.00%					
MPPT Efficiency	>99%					
Equipment Protection						
DC Polarity Reverse Connection Protection	Yes					
AC Output Overcurrent Protection	Yes					
AC Output Overvoltage Protection	Yes					
AC Output Short Circuit Protection	Yes					
Thermal Protection	Yes					
DC Terminal Insulation Impedance Monitoring	Yes					
DC Component Monitoring	Yes					
Ground Fault Current Monitoring	Yes					
Arc fault circuit interrupter (AFCI)	Optional					
Power Network Monitoring	Yes					
Island Protection Monitoring	Yes					
Earth Fault Detection	Yes					
DC Input Switch	Yes					
Overvoltage Load Drop Protection	Yes					
Residual Current (RCD) Detection	Yes					
Surge Protection Level	TYPE II(DC), TYPE II(AC)					
Interface						
Display	LCD+LED					
Communication Interface	RS232, RS485, CAN					
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)					
General Data						
Operating Temperature Range	-40 to +60 ℃, >45℃ Derating					
Permissible Ambient Humidity	0-100%					
Noise	≤ 55 dB					
Ingress Protection(IP) Rating	IP 65					
Inverter Topology	Non-Isolated					
Over Voltage Category	OVC II(DC), OVC III(AC)					
Cabinet size(W*H*D) [mm]	386W×660H×250D (Excluding connectors and brackets)					
Weight(kg)	35.2					
Warranty	Standard 5 years, extended warranty					
Type of Cooling	Intelligent Air Cooling					
Grid Regulation	IEC 61727,IEC 62116,CEI 0-21,EN 50549,NRS 097,RD 140, UNE 217002,OVE-Richtlinie R25,G99,VDE-AR-N 4105					
Safetv EMC/Standard	IEC/EN 61000-6-1/2/3/4, IS 16221/IEC 62109 , IS 16169/ IEC 62116					

Specification Are Subject To Change Without Prior Notice Due To Constant Improvements In Design & Technology.

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