GOODWE

SDT G2 PLUS+ Series 4-20 kW I Three Phase 2 MPPTs

The GoodWe 4-20 kW SDT G2 PLUS+ series inverter is specially designed for three-phase residential and small commercial projects. The integrated features of high efficiency allow for optimized power generation during the inverter's service cycle. With its lightweight and easy-to-install design, the SDT G2 inverter offers comfort and great convenience for operators and installers. Users can also take all-around smart control of energy management utilizing the featuring 24-hour load consumption monitoring enabled by GoodWe HK3000^{**2}. Meet the perfect choice of maximum energy yield for residential and small-scale commercial usage.



Smart Control & Monitoring

Smart Shadow Scan with adjustable scan interval^{**1} Multi-protocol compatibility for smart home integration



Superb Safety & Reliability

Optional AFCI^{**2} Optional exchangeable DC Type II SPD & SPD failure alarm^{**2}



High Generation to Cut Bills

Up to 200% DC input oversizing & 110% AC output overloading Up to 16 A max. DC input current per string

B

Friendly & Thoughtful Design

Fanless design for quiet operations^{**3} Elegant and compact design

GOODWE

Input Max.Input Voltage (V) 1,000 MPPT Operating Voltage Range (V) 180 Start-up Voltage (V) 180 Nominal Input Voltage (V) 620 Max.Input Current per MPPT (A) 16 Max.Short Circuit Current per MPPT (A) 20 Number of MPP trackers 2 Number of Strings per MPPT 1 Output 4000 Nominal Output Power (W) 4000 Max. AC Active Power (W) ¹¹ 4400 Max. AC Apparent Power (VA) ¹² 4400 Max. AC Apparent Power (VA) ¹² 50 / 60 Max. Output Current (A) 6.4 Power Factor 43% Efficiency 98.2% European Efficiency 98.2% European Efficiency 98.2% PV Insulation Resistance Detection Integrated AC Overcurrent Monitoring Integrated AC Overcurrent Protection Integrated AC Overcurrent Protection Integrated AC Overcurrent Protection Integrated AC Overcurrent Protection Integrat	1,000 180~850 180 620 16 20 2 1 1 5000 5000 5500	1,000 180~850 180 620 16 20 2 1 1	1,100 140~950 180 620 15 18.7 2	1,100 140~950 180 620 15 18.7	1,100 140~950 180 620	800 140-650 180	1,100	1,100	
MPPT Operating Voltage Range (V)180~850Start-up Voltage (V)180Nominal Input Voltage (V)620Max. Input Current per MPPT (A)16Max. Short Circuit Current per MPPT (A)20Number of MPP trackers2Number of Strings per MPPT1OutputNominal Output Power (W)4000Max. AC Active Power (W)'4400Max. AC Active Power (W)'4400Max. AC Apparent Power (VA)'4400Nominal Output Voltage (V)Nominal Output Voltage (V)Nominal Output Voltage (V)50 / 60Max. Output Current (A)6.4Power Factor64Power Factor3%Efficiency98.2%European Efficiency97.6%ProtectionIntegratedPV Insulation Resistance DetectionIntegratedAC Overcurrent ProtectionIntegratedAC Overcurrent ProtectionIntegratedAC Overvoltage ProtectionIntegratedAC Surge ProtectionIntegratedAC Surge ProtectionOptionalDC SwitchOptionalRenote ShutdownOptionalRemote ShutdownOptionalRemote ShutdownOptionalRenote Shutdown0ptionalRenote Shutdown0ptionalRemote Shutdown0ptionalRemote Shutdown0ptionalRenote Shutdown0ptionalRenote Shutdown0ptionalRenote Shutdown0ptionalRelative Humidity~30~+60 </th <th>180~850 180 620 16 20 2 1 1 5000 5000</th> <th>180~850 180 620 16 20 2</th> <th>140~950 180 620 15 18.7 2</th> <th>140~950 180 620 15</th> <th>140~950 180</th> <th>140-650</th> <th></th> <th>1 100</th> <th></th>	180~850 180 620 16 20 2 1 1 5000 5000	180~850 180 620 16 20 2	140~950 180 620 15 18.7 2	140~950 180 620 15	140~950 180	140-650		1 100	
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Max. Short Circuit Current per MPPT (A)20Number of MPP trackers2Number of Strings per MPPT1Output4000Nominal Output Apparent Power (W)4000Max. AC Active Power (W)'4400Max. AC Active Power (W)'4400Max. AC Active Power (W)'4400Max. AC Apparent Power (VA)'24400Nominal Output Voltage (V)Nominal Output Voltage (V)Nominal Output Voltage (V)50 / 60Max. Output Current (A)6.4Power Factor6.4Power Factor3%Efficiency98.2%European Efficiency97.6%ProtectionIntegratedPV Insulation Resistance DetectionIntegratedAct Overcurrent ProtectionIntegratedAC Overcurrent ProtectionIntegratedAC Overvoltage ProtectionIntegratedAC Overvoltage ProtectionIntegratedDC SwitchOptionalDC Surge ProtectionOptionalAFCIOptionalRenote ShutdownOptionalRemote ShutdownOptionalRemote ShutdownOptionalRenote ShutdownOptionalRenote Shutdown0ptionalRenote Shutdown0ptionalRenote ShutdownOptionalRenote ShutdownOptionalRenote Shutdown0ptionalRenote Shutdown0ptionalRenote Shutdown0ptionalRenote Shutdown0ptionalRenote Shutdown0ptionalRelativ	20 2 1 5000 5000	20 2	18.7 2		30	30	30	30	30
Number of MPP trackers2Number of Strings per MPPT1Output4000Nominal Output Apparent Power (W)4000Max. AC Active Power (W)'4400Max. AC Active Power (W)'4400Max. AC Active Power (W)'4400Max. AC Apparent Power (VA)'24400Nominal Output Voltage (V)Nominal Output Voltage (V)Nominal AC Grid Frequency (Hz)50 / 60Max. Output Current (A)6.4Power Factor6.4Power Factor3%Efficiency98.2%European Efficiency97.6%ProtectionIntegratedPV Insulation Resistance DetectionIntegratedAc Overcurrent MonitoringIntegratedAC Overcurrent ProtectionIntegratedAC Overvoltage ProtectionIntegratedAC Overvoltage ProtectionIntegratedAC Surge ProtectionIntegratedDC SwitchOptionalDC Surge ProtectionOptionalAFCIOptionalRemote ShutdownOptionalRemote ShutdownOptionalRemote ShutdownOptionalRemote Shutdown0ptionalRemote Shutdown0ptionalRemote Shutdown0ptionalRestive Humidity0~100%Max. Operating Altitude (m)'34000Cooling MethodDisplayCommunication15.0	2 1 5000 5000	2	2		37.5	37.5	37.5	37.5	37.5
Number of Strings per MPPT 1 Output 4000 Nominal Output Apparent Power (W) 4000 Max. AC Active Power (W)' 4400 Max. AC Active Power (W)' 4400 Max. AC Active Power (W)' 4400 Max. AC Apparent Power (VA)'2 4400 Nominal Output Voltage (V) Nominal AC Grid Frequency (Hz) 50 / 60 Max. Output Current (A) 6.4 Power Factor 6.4 Power Factor Max. Total Harmonic Distortion <3%	1 5000 5000			2	2	2	2	2	2
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Nominal Output Voltage (V) Nominal AC Grid Frequency (Hz) 50 / 60 Max. Output Current (A) 6.4 Power Factor 3% Efficiency 98.2% European Efficiency 97.6% Protection Integrated PV Insulation Resistance Detection Integrated Residual Current Monitoring Integrated PV Reverse Polarity Protection Integrated AC Overcurrent Protection Integrated AC Overvoltage Protection Integrated DC Surge Protection Integrated DC Surge Protection Optional DC Surge Protection Optional Remote Shutdown Optional Remote Shutdown Optional Remote Shutdown Optional Renote Shutdown Optional Relative Humidity 0~100% Max. Operating Altitude (m) ³ 4000 Cooling Method Display Communication Weight (kg) 15.0	5500	6600	8800	11000	13200	12000	16500	18700	2200
Nominal AC Grid Frequency (Hz)50 / 60Max. Output Current (A)6.4Power FactorMax. Total Harmonic Distortion<3%						220/127,			
Max. Output Current (A)6.4Power FactorMax. Total Harmonic Distortion<3%	400, 3L/N/PE		380/400/415, 3L/I		N/PE 3L/N/PE		380/400/415, 3L/N/		N/PE
Power Factor Max. Total Harmonic Distortion <3%	50 / 60	50 / 60	50/60	50/60	50/60	60	50/60	50/60	50/6
Max. Total Harmonic Distortion <3%	8.0	9.6	12.8	16.0	19.1	31.9	24.0	27.1	32.0
Efficiency Max. Efficiency 98.2% European Efficiency 97.6% Protection Integrated Residual Current Monitoring Integrated PV Reverse Polarity Protection Integrated Anti-islanding Protection Integrated AC Overcurrent Protection Integrated AC Short Circuit Protection Integrated AC Overvoltage Protection Integrated DC Switch Optional DC Surge Protection AfcI AC Short Optional Optional Renergency Power Off Optional Remote Shutdown Optional Remote Shutdown Optional Renete Shutdown Optional Relative Humidity 0~100% Max. Operating Altitude (m) ³ 4000 Cooling Method Display Communication Weight (kg) 15.0			~1 (Adjust	able from 0.8	leading to C	.8 lagging)			
Max. Efficiency98.2%European Efficiency97.6%ProtectionIntegratedPV Insulation Resistance DetectionIntegratedResidual Current MonitoringIntegratedPV Reverse Polarity ProtectionIntegratedAct Overcurrent ProtectionIntegratedAC Overcurrent ProtectionIntegratedAC Overcurrent ProtectionIntegratedAC Surge ProtectionIntegratedDC SwitchOptionalDC Surge ProtectionAFCIAFCIOptionalRemote ShutdownOptionalRemote ShutdownOptionalRelative Humidity0~100%Max. Operating Altitude (m) ^{*3} 4000Cooling MethodDisplayCommunicationWeight (kg)15.0	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%
European Efficiency 97.6% Protection Integrated PV Insulation Resistance Detection Integrated Residual Current Monitoring Integrated PV Reverse Polarity Protection Integrated Act Overcurrent Protection Integrated AC Overcurrent Protection Integrated AC Short Circuit Protection Integrated AC Overvoltage Protection Integrated DC Surge Protection Optional DC Surge Protection AFCI AFCI Optional Remote Shutdown Optional Remote Shutdown Optional General Data 0~100% Max. Operating Altitude (m) ³ 4000 Cooling Method Display Communication Weight (kg) 15.0									
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PV Insulation Resistance Detection Integrated Residual Current Monitoring Integrated PV Reverse Polarity Protection Integrated Anti-islanding Protection Integrated AC Overcurrent Protection Integrated AC Short Circuit Protection Integrated AC Overcurrent Protection Integrated AC Overvoltage Protection Integrated DC Switch Optional DC Surge Protection AC Surge Protection AFCI Optional Emergency Power Off Optional Remote Shutdown Optional Remote Shutdown Optional Relative Humidity 0~100% Max. Operating Altitude (m) ³ 4000 Cooling Method Display Communication Weight (kg) 15.0	97.6%	97.6%	97.6%	97.6%	97.8%	96.4%	97.8%	97.8%	97.89
Residual Current Monitoring Integrated PV Reverse Polarity Protection Integrated Anti-islanding Protection Integrated AC Overcurrent Protection Integrated AC Short Circuit Protection Integrated AC Overcurrent Protection Integrated AC Overcurrent Protection Integrated AC Sort Circuit Protection Integrated DC Switch Optional DC Surge Protection AfcI AFCI Optional Remote Shutdown Optional Remote Shutdown Optional General Data Optional Operating Temperature Range (°C) -30~+60 Max. Operating Altitude (m) ^{*3} 4000 Cooling Method Display Communication Weight (kg) 15.0									
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DC Switch Optional DC Surge Protection AC Surge Protection AC Surge Protection AFCI AFCI Optional Emergency Power Off Optional Remote Shutdown Optional General Data Oprional Operating Temperature Range (°C) -30~+60 Relative Humidity 0~100% Max. Operating Altitude (m) ³ 4000 Cooling Method Display Communication Weight (kg) 15.0	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integra
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Remote ShutdownOptionalGeneral DataOperating Temperature Range (°C)-30~+60Relative Humidity0~100%Max. Operating Altitude (m) ^{°3} 4000Cooling Method0DisplayCommunicationWeight (kg)15.0	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Option
General Data Operating Temperature Range (°C) -30~+60 Relative Humidity 0~100% Max. Operating Altitude (m) ^{°3} 4000 Cooling Method	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Option
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Relative Humidity 0~100% Max. Operating Altitude (m) ³ 4000 Cooling Method 0 Display 0 Communication 15.0									
Max. Operating Altitude (m) ^{*3} 4000 Cooling Method Display Communication Weight (kg) 15.0	-30~+60	-30~+60	-30~+60	-30~+60	-30~+60	-30~+60	-30~+60	-30~+60	-30~+
Cooling Method Display Communication Weight (kg) 15.0	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100
Display Communication Weight (kg) 15.0	4000	4000	4000	4000	4000	4000	4000	4000	4000
Communication Weight (kg) 15.0		tural Convec		D, LCD(Optio	ng \// ^ N/.		art Fan Cooli	ing	
Weight (kg) 15.0				5, WiFi or LA					
0 (0)	15.0	15.0				,	06.0	06.0	00.0
LIMENSION WYRYLL(mm)	15.0	15.0	20.5	20.5	23.5	26.0	26.0	26.0	26.0
(<i>'</i> /	354×433×14			11×175			415×511×198		
Noise Emission (dB) <34	<34	<34	<25	<25	<45	<45	<45	<45	<45
Topology				Non-is					,
Self-consumption at Night (W) <1	-	<1	<1	<1	<1	<1	<1	<1	<1
Ingress Protection Rating IP65	<1	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
DC Connector Plug	<1 IP65	nector		MC4 (4	~6mm²)	OT Terminal			

*1: For Belgium Max. AC Active Power (W): GW4000-SDT-20 is 4000,GW5000-SDT-20 is 5000,GW6000-SDT-20

**1: For SDT G2 Plus+ 8-20kW only. **2: Optional functions or devices are purchased separately. **3: For SDT G2 Plus+ 4-10kW only. *:All pictures shown are for reference only. Actual appearance may vary.

11: For Belgium Max. AC Active Power (W): GW4000-SD F20 is 4000, GW5000-SD F20 is 5000, GW6000-SD F20 is 2000, GW1000-SD F20 is 12000, GW12K-SDT-20 is 5000, GW000-SD F20 is 4000, GW5000-SDT-20 is 5000, GW0000-SDT-20 is 4000, GW5000-SDT-20 is 5000, GW10K-SDT-20 is 12000, GW12K-SDT-20 i