SDT/LV SDT Series Datasheet

Technical Data	GW12KN-DT	GW15KN-DT	GW17KN-DT	GW20KN-DT	GW12KLN-DT
PV String Input Data					
Max. DC Input Power (W)	16800	19500	22100	26000	21600
Max. DC Input Voltage (V)	1000	1000	1000	1000	800
MPPT Range (V)	200~850	200~850	200~950	200~950	200~650
Start-up Voltage (V)	180	180	180	180	200
Nominal DC Input Voltage (V)	620	620	620	620	370
Max. Input Current (A)	22/11	22/11	22/22	22/22	22/22
Max. Short Current (A)	27.6/13.8	27.6/13.8	27.5/27.5	27.5/27.5	27.5/27.5
No. of MPP Trackers	2	2	2	2	2
No. of Input Strings per Tracker	2/1	2/1	2/2	2/2	2/2
AC Output Data					
Nominal Output Power (W)	12000	15000	17000	20000	12000
Max. Output Power (W)	14000	16500	19000	22000	11300@208VAC 12000@220VAC 13200@240VAC
Max. Output Apparent Power (VA)	14000	16500	19000	22000	13200
Nominal Output Voltage (V)	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE	150-300
Nominal Ouput Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	21.5	24	28.8	31.9	31.9
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Output THDi (@Nominal Output)	<2%	<2%	<3%	<3%	<3%
Efficiency					
Max. Efficiency	98.3%	98.3%	98.6%	98.6%	98.5%
European Efficiency	>98.0%	>98.0%	>98.1%	>98.1%	98.1%
Protection					
PV String current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated
DC SPD Protection	Integrated (Type III)	Integrated (Type III)	Integrated (Type III)	Integrated (Type III)	Integrated
AC SPD Protection	Integrated (Type III)	Integrated (Type III)	Integrated (Type III)	Integrated (Type III)	Integrated
General Data					
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Cooling	Natural Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Noise (dB)	<40	<40	45	45	45
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED
Communication	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi
Weight (kg)	26	26	26	26	26
Size (Width*Height*Depth mm)	516*455*192	516*455*192	516*455*220	516*455*220	516*455*220
Protection Degree	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<2
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Certifications & Standards					
Grid Regulation	VDE0126-1-1, EN50438(PL),VDE-AR-N 4105, AS4777.2	VDE0126-1-1, AS4777.2, G83, IEC61727, IEC62116, EN50438(SW), EN50438(IR), CEI 0-21			-
Safety Regulation	IEC62109-1&-2				-
EMC	EN61000-6-1, EN61000-6-2,EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29				-

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