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## Technical specification of Grid Tie Inverter 3 Phase

Inverter Model	VCS10kGTI	VCS12kGTI	VCS15kGTI	VCS17kGTI	VCS20kGTI
<b>Input (DC)</b>					
Max. DC power	11400 W	12250 W	15340 W	17410 W	22000 W
Max. DC voltage	1000 V	1000 V	1000 V	1000 V	1000 V
Min. Input Voltage	200 V	200 V	200 V	200 V	200 V
MPP voltage range (Full Load)	320-800 V	320-800 V	380-800 V	430-800 V	450-800 V
Max. input current /per string(A)	17/17	17/17	20/20	25/25	25/25
Number of MPP trackers /Strings per MPP tracker	2/2	2/2	2/2	2/2	2/2
<b>Output (AC)</b>					
AC nominal power	10KW	12 KW	15 KW	17KW	20KW
Max. AC apparent power	10 KVA	12 KVA	15 KVA	17 KVA	22KVA
Nominal AC voltage	3/N/PE 230V/400Va.c( 25kw only at 277V/480Va.c)				
AC grid frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Max. output current (A)	16	19	24	25	29
Power factor (cos φ)	0.8leading-0.8laging	0.8leading-0.8laging	0.8leading-0.8laging	0.8leading-0.8laging	0.8leading-0.8laging
Harmonics	<3%	<3%	<3%	<3%	<3%
<b>Efficiency</b>					
Max. efficiency	98.3%	98.4%	98.4%	98.4%	98.4%
Euro efficiency	97.8%	97.9%	98.0%	98.1%	98.1%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
Dimensions (W / H / D)in mm	505 / 525/ 245mm	505 / 525/ 245mm	505 / 525/ 245mm	505 / 525/ 245mm	505 / 525/ 245mm
Weight	34kg	34kg	37kg	37kg	37kg
Operating temperature range	-25°C...+60°C	-25°C...+60°C	-25°C...+60°C	-25°C...+60°C	-25°C...+60°C
Degree of protection (according to IEC 60529)	IP65	IP65	IP65	IP65	IP65
Climatic category (according to IEC 60721-3-4)	4K4H	4K4H	4K4H	4K4H	4K4H
Internal consumption: (night) Topology	<1W	<1W	<1W	<1W	<1W
Cooling concept	Convection				
Display	LCD				
Humidity	0-95%.no condensation				
Communication: RS485/Wifi	yes / opt.				
Warranty: 3/5 years	yes .				