

»VISIONTEK»

Powering Solar Excellence

INTRODUCING GRID TIE INVERTER WITH
ADVANCED H6 TECHNOLOGY
&
N - TYPE TOPCON DCR MODULES

10
YEAR
WARRANTY
★★★★★



LEADING FEATURES



IP65 Rating



Max Input Current 18A to 36A



50% More DC Overloading



Anti Islanding Over-Voltage Protection



Pan-India Service Centres

SINGLE PHASE SOLAR GRID TIE INVERTER

Powering Solar Excellence

Technology Data

Model No	V01G03K0	V01G05K0	V01G03K3	V01G05K2
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DC Side / Input Parameters

Max DC power (W)	4500W	7500W	5400W	7500W
Max DC voltage (Vdc)	550	550	550	550
Min System start/Shut down voltage (Vdc)	75/100	75/100	75/100	75/100
MPPT voltage range(Vdc)	100~500	100~500	100~500	100~500
Max. input current (A)	18A	22A	18A	22A
Max.input short circuit per MPPT	25A	28A	25A	28A
Number of MPP trackers	1			
Strings per MPP tracker	1			

AC Side / Output Parameters

Nominal output power (W)	3000	5000	3300	5000
Maximum output power (W)	3300	5500	3960	5500
Nominal output voltage/range (V)	208,220,230,240/180~270			
AC grid frequency/range (Hz)	50Hz,60Hz(auto-selection) / 44Hz-55Hz; 54Hz-65Hz			
Maximum output current (A)	16	23	16	23
AC connection (with PE)	Single phase			
Current distortion(THDi)	<1.5%	<2.5%	<2.5%	<2.5%
factor	~1%(Adjustable from 0.8 leading to 0.8 lagging)			

Efficiency

Maximum conversion efficiency	97.5%	97.5%	97.8%	97.5%
European efficiency	97.2%	97.2%	97.3%	97.2%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%

Safety and Protection

DC reverse-polarity protection	Yes
Anti-islanding / Overvoltage protection	Yes
Short circuit protection	Yes
Leakage current protection	Yes
Grid monitoring / Ground fault monitoring	Yes
DC/AC side SPD(thermally protected)	Yes

General Parameters

Dimension (L/W/H)(mm)	300x294x104	370x318.5x105.5	300x294x104	370x318.5x105.5
Weight (kg)	5	7	5	7
Embedded DC Switch	Optional			
Night power consumption (W)	< 0.2			
Isolation type	Transformerless			
Protection degree	IP65 according to IEC60529			
Operation temperature (°C)	-25 ~ +60			
Cooling concept	Smart Cooling			
Operatiing Altitude (m)	<2000m without power derating			
Acoustic noise level (dB)	< 25			
Display	Graphic LCD			
Communication Interface	Standard WIFI; RS485 (optional)			
Warranty	Standard 8 years; 10 years optional		Standard 10 years	

Certificates and Approvals

IS 16169 : 2019,IS 16221 (Part 2) :

SINGLE PHASE SOLAR GRID TIE INVERTER

Powering Solar Excellence

Technology Data

Model No	V03G06K0	V03G08K0	V03G10K0	V03G06K2	V03G08K2	V03G10K2
Input (DC)						
	7500W	9500W	11500W	7500W	9500W	11500W
Max DC voltage (Vdc)	1000Vd.c.					
Min working voltage (Vdc)	160Vd.c.					
MPPT voltage range (Vdc)	160...850Vd.c.					
Max input current / per string (A)	18A/18A					
Max.input short circuit per MPPT	25A/25A					
Number of MPP trackers	2					
Strings per MPP tracker	1					
Output (AC)						
AC nominal power (W)	6000	8000	10000	6000	8000	10000
Max AC apparent power (VA)	7000	8800	11000	7000	8800	11000
Max output current (A)	12	15	17	12	15	17
Nominal AC output	50/60 Hz; 400 Vac					
AC output range	45/55 Hz ; 280 ~ 490 Vac (Adj)					
Power factor	0.8leading...0.8laging					
Harmonics	<5%					
Grid type	3 W/N/PE					
Efficiency						
Max efficiency	98.2%	98.3%	98.4%	98.2%	98.3%	98.4%
Euro efficiency	97.7%	97.8%	97.9%	97.7%	97.8%	97.9%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety and Protection						
DC reverse-polarity protection	Yes					
DC breaker	Yes					
DC/AC SPD	Yes					
Leakage current protection	Yes					
Insulation Impedance Detection	Yes					
Residual Current protection	Yes					
General Parameters						
Dimension (L/W/H)(mm)	480x476x157					
Weight (kg)	16					
Operating temperature range °C	-25 ~ +60					
Degree of protection	IP65					
Cooling concept	Smart Cooling					
Topology	Transformerless					
Display	LCD					
Humidity	0-95%, no condensation					
Communication	RS485/WiFi/GPRS					
Warranty	Standard 8 years; 10 years optional			Standard 10 years		

Certificates and Approvals

IS 16169 : 2019,IS 16221 (Part 2) : 2015, IS 17980 : 2022

SINGLE PHASE SOLAR GRID TIE INVERTER

Powering Solar Excellence

Technology Data

Model No	V03G012K	V03G015K	V03G020K	V03G025K
Input (DC)				
	18000W	22500W	30000W	30000W
Max DC voltage (Vdc)	1000Vd.c.			
Min working voltage (Vdc)	160Vd.c.		250Vd.c.	
MPPT voltage range (Vdc)	160...850Vd.c.		250...850Vd.c.	
Max input current / per string (A)	18A/18A		26A/26A	36A/26A
Max.input short circuit per MPPT	25A/25A		34A/34A	46A/34A
Number of MPP trackers	2			
Strings per MPP tracker	2			
Output (AC)				
AC nominal power (W)	12000	15000	20000	25000
Max AC apparent power (VA)	13200	16500	22000	27500
Max output current (A)	20	23	30	36
Nominal AC output	50/60 Hz; 400 Vac			
AC output range	45/55 Hz ; 280 ~ 490 Vac (Adj)			
Power factor	0.8leading...0.8laging			
Harmonics	< 5%		< 1.5%	
Grid type	3 W/N/PE			
Efficiency				
Max efficiency	98.4%	98.4%	98.5%	98.5%
Euro efficiency	97.9%	98.0%	98.1%	98.2%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%
Safety and Protection				
DC reverse-polarity protection	Yes			
DC breaker	Yes			
DC/AC SPD	Yes			
Leakage current protection	Yes			
Insulation Impedance Detection	Yes			
Residual Current protection	Yes			
General Parameters				
Dimension (L/W/H)(mm)	480x476x157		520x510x160	
Weight (kg)	16		23	25
Operating temperature range °C	-25 ~ +60			
Degree of protection	IP65			
Cooling concept	Smart Cooling			
Topology	Transformerless			
Display	LCD			
Humidity	0-95%, no condensation			
Communication	RS485/WiFi/GPRS			
Warranty	Standard 8 years; 10 years optional			

Certificates and Approvals

IS 16169 : 2019,IS 16221 (Part 2) : 2015, IS 17980 : 2022

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