

C&I Series



THREE PHASE INVERTERS 33kW – 50 kW



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INV 33 TP

INV 50 TP

Key Features:

-  Compact wall mount design
-  ShadeSol shadow management
-  International quality standards
-  IP66 rated design for outdoor use
-  Quick setup and commissioning via apps
-  5 MPPT's for flexible PV array design
-  Wide MPP voltage range 200V-1000V
-  Quick & easy-to-install with basic tools
-  150 % PV array oversizing for higher yields
-  13 A input current, ideal for bifacial and large area PV modules

Model	INV 33 TP	INV 50 TP
Input(DC)		
Max. PV Array Power	49.5 kWp	75 kWp
Max. Input Voltage	1100V	
MPP Voltage Range / Rated Input Voltage	200V - 1000V / 630V	
Min. Input Voltage	200V	
Initial. Feed-in Voltage	250V	
Max. Operating Input Current	26A	40A / 32A / 32A / 40A / 32A
Max. Short Circuit Current	40A	60A / 48A / 48A / 60A / 48A
No. of Independent MPPT Inputs / Strings Per MPPT Input	3 / 2	5 / 2
Output(AC)		
Rated Active Power	33 kW	50 kW
Rated Apparent Power	33 kVA	50 kVA
Max. Apparent Power	33 kVA	55 kVA
AC Nominal Voltage	220V / 380V 230V / 400V	
AC Voltage Range	180V to 305V / 312V to 528V	
AC Grid Frequency / Range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz	
Max. Output Current	55.0 A	83.6 A
Adjustable Power Factor Range	0.8 leading to 0.8 lagging	
Feed-in Phases	3 / 3-N-PE	
Harmonic Distortion (THD) At Rated Output	< 3%	
Efficiency & Protection		
Max. Efficiency/European Efficiency	98.6% / 98.3%	
DC switch	Yes	
Ground Fault Monitoring / Grid Monitoring	Yes / Yes	
DC Reverse Polarity Protection / AC Short-circuit Protection	Yes / Yes	
All-Pole-Sensitive Residual-Current Monitoring Unit	Yes	
Anti-Islanding Protection	Yes	
Surge Protection	Yes / Type II	
Protection Class (According to IEC 62109-1) / Overvoltage Category (According to IEC 62109-1)	I / AC: III; DC: II	
General Data		
Dimensions (W/H/ D)	670 / 580 / 270 mm	670 / 640 / 270 mm
Weight	42 kg	43 kg
Operating Temperature Range	-25°C ... +60°C	-25°C to 60°C
Self-Consumption (At Night)	< 1W	
Topology	Non-isolated	
Cooling Concept	Active cooling	
Degree of Protection (According to IEC 60529)	IP66	
Climatic Category (According to IEC 60721-3-4)	4K4H	
Max. Permissible Value for Relative Humidity (Non-Condensing)	100%	
Max. Operating Altitude	3000 m	4000 m
Features		
DC Connection	Plug-in connector	
AC Connection	OT Connector	OT/DT Connector
Mounting Type	Wall-mount bracket	
LED Indicators (Status / Fault / Communication)	Yes	
Communication Interface (Rs485 / Wi-Fi/ LAN /4G)	Yes / Yes / Optional / Optional	
Certificates and Approvals (More Available On Request)	CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC61000, NB/T 32004	CE, IEC 62109-1/2, IEC 61727, IEC 62116, IEC61683, G98/G99, VDE4110, VED4105, EN5054 9-1/2