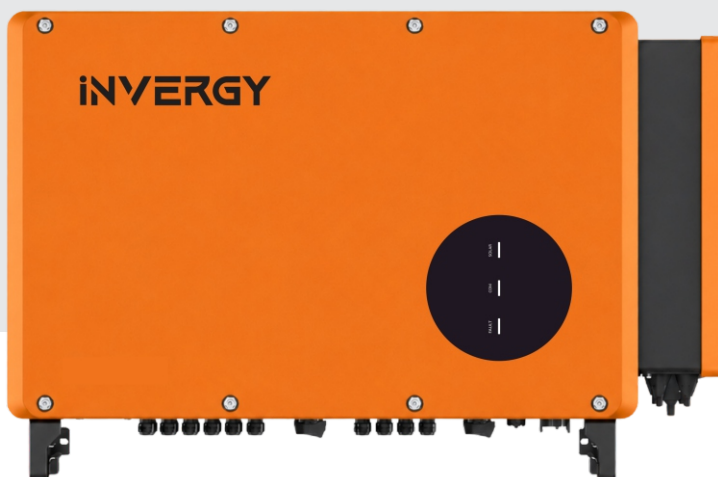


C&I Series



THREE PHASE INVERTERS 80kW – 150 kW



Scan For
More Info.

INV 80 TP

INV 110 TP

INV 125 TP

INV 150 TP

Key Features:

-  Adjustable power factor range of 0.8 leading to 0.8 lagging.
-  Max PV input voltage of 1100V with 200V minimum input voltage.
-  Integrated DC switch with Type II surge protection for DC and AC.
-  Max efficiency of 98.6%–99.0% and European efficiency of 98.4%–98.6%.
-  ShadeSol shadow management with string-level management for improved generation.
-  Wide MPPT voltage range of 200–1000VDC (630V rated) with 8–10 independent MPPT inputs.
-  IP66 enclosure with 4K4H climatic rating, 100% humidity tolerance and operation up to 4000m altitude.
-  Complete protection suite including ground fault, grid monitoring, reverse polarity and anti-islanding.
-  Operating temperature range of -25°C/-30°C to +60°C with active cooling and non-isolated topology.

Model	INV 80 TP	INV 110 TP	INV 125 TP	INV 150 TP
Input(DC)				
Max. PV Array Power	120 kWp	165 kWp	187.5 kWp	225 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	32A	10*40A		8*48A
Max. Short Circuit Current	48A	10*50A		8*60A
No. of Independent MPPT Inputs / Strings Per MPPT Input	8 / 2	10/2		8/3
Output(AC)				
Rated Active Power	80 kW	110 kW	125 kW	150 kW
Max. Apparent AC Power	88 kVA	121 kVA	137.5 kVA	165 kVA
AC Nominal Voltage	220V / 380V		380 V / 400 V	
AC Voltage Range	312V - 528V			
AC Grid Frequency / Range	50 Hz / 45 Hz - 55 Hz		60 Hz / 55 Hz - 65 Hz	
Nominal AC Output Current	115.8 A	158.8 A	190.0 A	227.9 A
Max. AC Output Current	127.0 A	174.7 A	209.0 A	250.7 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 % / 98.4 %			99.0% / 98.6%
DC Switch	Yes			
Ground Fault Monitoring / Grid Monitoring	Yes / Yes			
DC Reverse Polarity Protection / AC Short-circuit Protection	Yes / Yes			
AC Overcurrent Protection	Yes			
DC Surge Protection	Type II	Type I+II		Type II / (TypeI+II Optional)
AC Surge Protection	Type II			Type II / (TypeI+II Optional)
All Pole Sensitive Residual Current Monitoring Unit	Yes			
Anti-islanding Protection	Yes			
Arc Fault Circuit Interrupter (AFCI)	Optional	Yes		
PID Recovery	Optional	Optional		
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)	984/ 640 / 330 mm			1010 / 757 / 362 mm
Weight	85 kg	87.0 kg		100.9 kg
Operating Temperature Range	-25°C to 60°C		-30 °C ... +60 °C	
Self-Consumption (At Night)	< 3W		< 5W	< 3W
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	4000 m			
EMC	Class B			
Features				
DC Connection	Phoenix Contact		Plug-in connector	
AC Connection	OT/DT Terminal (Max.240mm2)		OT/DT connector	
LED Indicators (Status / Fault / Communication)	Yes			
Communication Interface (RS485 / WiFi / LAN / 4G)	Yes / Yes / Optional / Optional		Yes / Yes / Yes / Optional	Yes / Yes / Optional / Optional
Certificates And Approvals (More Available on Request)	CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC61000, AS/NZS4777, C10/C11,G99		CE, IEC62109-1/2, IEC63027, IEC61727, En50549	