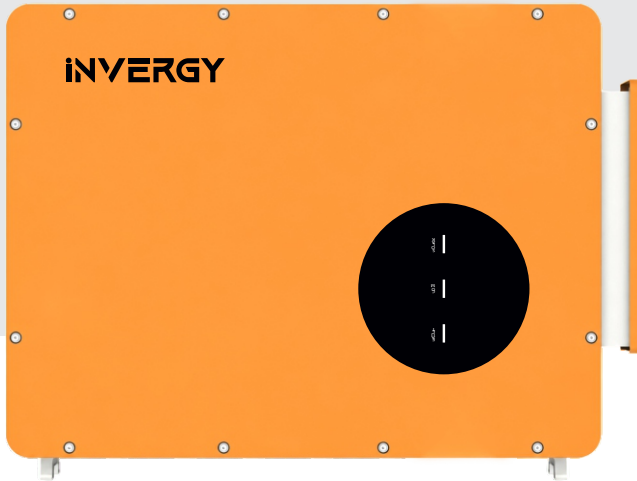


Utility Series



510 kW – THREE PHASE INVERTER



Scan For
More Info.

INV 510 TP

Key Features:

-  PLC To Enhance Communication Stability And Reduce Cable Costs
-  Designed To Operate In Challenging Global Environmental Conditions With IP66 & C5-M Protection
-  Bluetooth + App Connectivity For Easy Commissioning And Monitoring
-  Grid Forming Support To Stabilize Frequency And Voltage In Weak Grid
-  Maximizing Yield By Leading Conversion Efficiency > 99.1%
-  Smart Forced Cooling For Reliable Thermal Management
-  Smart Dc Connector Disconnection
-  Night And Day Time Reactive Power Control
-  105A Per MPPT, Compatible With High Current Pv Modules
-  Smart I-V Curve Tracing For Easy Diagnostics
-  Compatible With Max. 500mm² AC Cables
-  Dc Connector And AC Terminal Temperature Detection
-  Anti-pid Solution To Mitigate PV Module Degradation

Model	INV 510 TP
Input(DC)	
Max. Input Voltage	1500V
MPP Voltage Range / Rated Input Voltage	500V - 1500V / 1200V
Min. Input Voltage	500V
Initial. feed-in voltage	550V
Max. operating input current	105A
Max. short circuit current	180A
No. of independent MPPT inputs / strings per MPPT Input	6/6
Output(AC)	
AC Output Power	510 kVA @ 30 °C / 465 kVA @ 40 °C / 410 kVA @ 50 °C
AC Nominal Voltage	1000V
AC Voltage Range	800V - 1150V
AC Grid Frequency / Range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz
Max. Output Current	294.4 A
Adjustable Power factor Range	0.8 leading - 0.8 lagging
Feed-in Phases	3/3-PE
Harmonic distortion (THD) at rated output	< 1%
Efficiency	
Max. Efficiency/European Efficiency	99.1 % / 98.8 %
Protection	
DC switch	Yes
Anti-islanding Protection	Yes
AC Over Current Protection	Yes
DC reverse connection protection	Yes
AC Short Circuit Protection	Yes
PV String Monitoring	Yes
DC Surge Protection	Type II
AC Surge Protection	Type II
Residual Current Monitoring Unit (RCMU)	Yes
Ground Fault Monitoring	Yes
Grid Monitoring	Yes
General Data	
Dimensions (W/H/ D)	1200 / 897 / 422 mm
Weight	≤ 135.0 kg
Operating Temperature Range	-30 °C ~ 60 °C
Self-Consumption (At Night)	<5W
Topology	Non-isolated
Cooling Concept	Smart forced cooling
Degree of protection	IP66
Max. permissible value for relative humidity	0 - 100 % (non-condensing)
Max. Operating Altitude	5000m (> 4000m with derating)
Features	
DC Connector	DC Plug-in connector
AC Connector	OT / DT Terminal (Max.500mm²)
Display	LED, Bluetooth + APP
USB	Yes
Communication	RS485 / PLC
Compliance	
Certificates and Approvals (More Available On Request)	IEC 62109, IEC 61727, IEC 62116, IEC 61683, EN 50549-2, IEC60947-2