

HiQ Solar TrueString 380V Inverter TSXL380-8k-VN Specifications

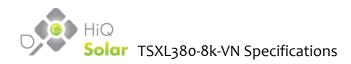


Features

- Rugged 3-phase 38oV plug & play system
- Small and light (hand holdable, 30.6 lb.)
- Non-isolated inverter for use with ungrounded DC systems
- Peak 97.8% efficiency
- 200-850V DC MPP voltage range for 600V and 1,000V systems
- 7.9 kW AC full power MPP voltage range 450-850V
- Two DC string inputs with independent monitoring and MPPT management.
- Waterproof NEMA6, silent convection cooling
- Designed for high reliability, uses no electrolytic capacitors
- Wide temperature range, -40 to +65°C
- Configured for Vietnam Utility Grid Compliance

Applications

- Vietnam C&I and Utility Solar Market
 - Rooftop commercial, usable where other solutions just won't work for example coastal, desert, high altitude locations
- Car ports, parking and shade structures; units may be mounted at any orientation, under modules, on racking without extra strengthening, clear of risk of liability from vandalism



DC Input (two MPPT inputs)	
Maximum open circuit voltage per String, VOC	1,000 VDC
Full power MPPT range, per string	450-850 VDC
PV start voltage	200 VDC
DC maximum input current, per DC input	12 A
DC maximum input short circuit current	30 A
DC maximum input source back feed current to input source	o A
AC Output	
AC maximum continuous total output power to +40 °C Ambient	7.9 kW
AC de-rate with temperature, +40 to +65 °C Ambient	-175 W/°C
AC nominal output current, per phase	12 A
AC maximum continuous output current, per phase	12 A
AC maximum output over current protection	80 A
AC minimum wire gauge for grid connection	14 AWG
AC 3-phase system compatibility	38oV WYE, 3 phases, neutral and ground
AC voltage range ³ , phase to phase (min / nominal / max)	323V / 380V / 418V
AC voltage range ³ , phase to neutral (min / nominal / max)	187V / 220V / 242V
AC output frequency range ³ (min / nominal / max)	49Hz / 50Hz / 51Hz Hz
DC Injection in AC grid	<0.5% of DC input
Harmonic Distortion (THD/Single Frequency)	<5%/<3%
Voltage/Frequency Ride through (minimum)	2 seconds
AC reconnect time delay³ (min/default/max)	1/300/1000 s
Power Factor	≥0.99 (settable from 0.8 leading to 0.8 lagging)
Other Specifications	
Peak efficiency	97.8%
AC Voltage Trip Limit Accuracy	±2.7 V
Frequency Trip Limit Accuracy	0.05 Hz
Trip Time Accuracy	±40 ms or 1%
Dimensions	515 x 378 x 86 mm (20.25" x 14.9" x 3.4")
Weight	13.6 kg (30.6 lb.)
Operating temperature range	-40 to +65 °C (-40 to 150 °F)
Power consumption standby/ night	<8.3 W
Cooling	Natural convection, no fan
Communication	Powerline or Modbus/RS485
Environmental rating	Outdoor / rooftop, NEMA type 6
Certification	Pending Vietnam Utility Certification
	EMI/EMCC FCC Part 15 Part A.