



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



### Features

- Rugged 3-phase 380V 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



<b>DC Input (two MPPT inputs)</b>	
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	0 A
<b>AC Output</b>	
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	380V WYE, 3 phases, neutral and ground
AC voltage range <sup>3</sup> , phase to phase (min / nominal / max)	323V / 380V / 418V
AC voltage range <sup>3</sup> , phase to neutral (min / nominal / max)	187V / 220V / 242V
AC output frequency range <sup>3</sup> (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 delay <sup>3</sup> (min/default/max)	1 / 300 / 1000 s
Power Factor	≥0.99 (settable from 0.8 leading to 0.8 lagging)
<b>Other Specifications</b>	
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.