Welcome! Thank you for choosing the HiQ Solar 208V TrueString Inverter. Set up is easy....

What's in the box?

You'll need most of the following. For some items we will send you one per shipment to save waste



TrueString Inverter TS208-5k75





AC Splice, ACSPL-60 (optional)

AC Cable - ordered

CBL-208A-05 (5')

CBL-208A-15 (15')

CBL-208A-30 (30')

CBL-208A-50 (50')

separately,



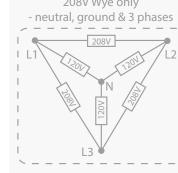
Gateway (GW-A-120) with included SD Card, Ethernet cable



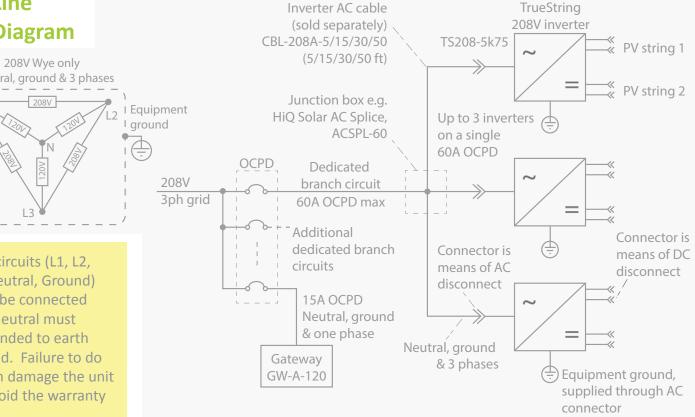
Warnings

- System to be connected to 208V 3-phase Wve (3 phases, neutral, ground) ONLY
- No user-servicable parts inside tampering with the unit will void the warranty
- Applying the incorrect polarity to DC string inputs will result in damage and void the warranty
- Communications Gateway is for indoor use only

Line Diagram



• All 5 circuits (L1, L2, L3, Neutral, Ground) must be connected and Neutral must be bonded to earth ground. Failure to do so can damage the unit and void the warranty



Notes on siting

- NEMA6 rated
- May be placed almost anywhere
- Cooling most efficient if unit is mounted vertically in shade, bolted to racking, with connectors pointing downwards. However, any orientation is acceptable
- Mounting hardware up to 5/16" will fit the baseplate mounting slots.

Grounding

- Metal enclosure must be grounded (NEC 690.43)
- Equipment ground achieved through AC connector
- Optionally, grounding may be achieved by adding a lay-in lug (not provided) or through mounting bolts to a grounded metal structure using

paint-cutting washers

Connect to Grid

208V

only

3-phase

Remove sealing cap Connect inverter AC cable to the AC system. Connector is certified means of AC disconnect

Any color to any phase

> White to Neutral Green to Equipment Ground

Mate AC connector receptacles. Unit is only watertight when all connectors fully engaged

(Unmating requires tool - insert center pin into hole in connector collar and turn assembly)

Optional AC Splice

HiQ Solar ACSPL-60 may be used to combine up to 3 TrueString 208V inverters to one dedicated branch circuit



Dedicated branch circuit. 60A OCPD max AC Cables of up to 3 TrueString inverters

Connect Gateway

Using Gateway AC cable, make connections to one phase through 15A OCPD, as close to PV array as possible



Site Gateway indoors. Ethernet network connection may be made now.

White - Neutral Green - Ground Black - One phase

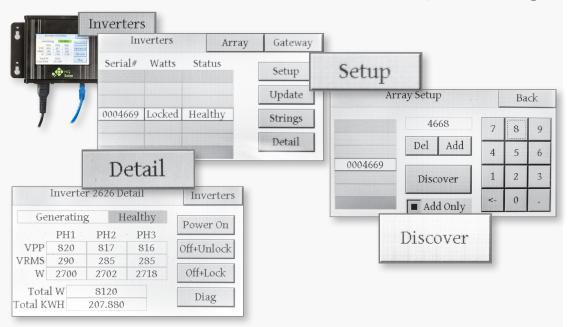




Nearly there! Finishing up.....

Discover **System**

- Switch on AC power to the Gateway and the inverter(s)
- Press 'Discover' button
- Gateway will search for any/all TrueString inverters and check they are healthy
- Press 'Detail' button. If a fault is indicated, check AC wiring



Connect **PV Strings**

Instructions

- Switch off AC to inverter
- Remove connector end caps
- Connect 2 strings
- Secure DC wiring to array racking Design
- 1,000V-rated
- String lengths, stacking etc. see installation manual
- Uneven strings are ok, see manual
- Connectors are certified means of DC disconnect, don't need additional disconnects

Warning

• Do not reverse + and - polarities on DC inputs, this will damage unit and invalidate warranty



If no AC, button flashes red - normal at this stage

Buttons & Indicators

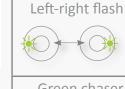
More information and other indications detailed in the installation manual

Button State	Meaning
DISCOVER	Initial state
DISCOVER	Once pressed, in process of discovering inverters. Will return to initial state with empty serial number list if no inverters found
DISCOVER	 Error found, for example signal strength too low, too much background noise on circuit. Red color only clears when user re- tries & fault condition no longer applies
DISCOVER	Once discovery has successfully occurred, button returns to

Mate DC connector receptacles. Unit is only watertight when all connectors fully engaged



Unmating requires included tool as shown



Inverter

Button Push 1 press • Make inverter beep ("are you alive?") • "Off & locked" - disabled 2 presses Do not 5-minute self-start • Start generating immediately 3 presses If locked, unlock & generate immediately • (If system is faulted, will unlock

but won't generate) Inverter Meaning Indicator State Powered up Solid Not generating No faults

• Power-on self-test (will take <1 minute)

Green chaser Powered up

 Generating No faults

Rapid flashing • Faulted. For example, arc detected

Mostly on • "Off & locked" - disabled

Mostly off Sleeping - not generating

TrueString





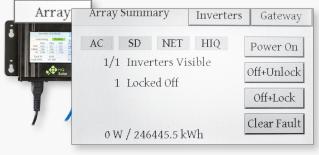




You're

Congratulations. More information at www.higsolar.com.

- Switch AC back on if necessary
- The system will wait 5 minutes, self-test then start generating power.



Gateway Indications:

- Gateway's AC wiring is correct (Neutral is connected, voltage is within tolerance)
- The SD card is inserted and the file system is OK
- NET • The network is connected. Ethernet cable is OK, Gateway has acquired an I.P. address
- HIO Gateway was able to contact the HiQ server and upload data



• Press 'Array' button on

locked inverters

health is shown

generating

Pressing 'Off+Unlock' button

will unlock any previously

minute delay if desired

Gateway communication

• Press 'Power On' to omit the 5

Gateway

On-Line

original state



© HiQ Solar Inc. 12th-Dec-2016 PST-022 Data subject to change without notice Rugged Solar Inverters for Commercial 3-Phase Installations



