Identification Systems

Sport 1000 Hand-held Printer

HellermannTyton

High-Quality Labels

- Prints on 1/2", 1" and 2" vinyl widths
- 203 dpi print resolution

Precision Cutter

- Manual cutter lever for clean, crisp label edges

Large LCD Screen

- 2.62" x 1.31" (256 x 128 pixels)
- LCD screen displays five lines of text in high resolution

Intuitive Capabilities

- Soft key menu for easy navigation
- ABC key layout

Rechargeable Battery

- Print for 120 minutes on a single charge
- Low self-discharge rate for long-term use

Rugged Design

- Industrial-strength nylon strap with metal loop
- Exterior casing stands up to industrial use

Lightweight Design

- Fits in the palm of your hand
- Weight: 2.7 lbs. (1.22 kg)

HellermannTyton introduces the newest innovation in portable labeling – The Sport hand-held thermal transfer printer allows for on-the-job label creation to ensure that applied labels meet all the current National Electrical Codes (NEC) and International Fire Codes (IFC). In addition, the portability of the Sport makes it ideal for getting off the job faster, and passing inspection the first time. The Sport can print labels on demand, even while the inspector is still present, allowing the installer to print any missing labels or correct any labels that the inspector rejects. This saves time and money by not having to re-schedule the inspection while waiting for replacement labels to be ordered, delivered and installed.

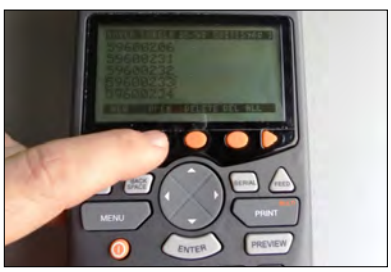
The Sport comes pre-loaded with all the label designs mandated by the NEC and IFC. The existing templates stored in the Sport can be modified to meet specific local code requirements which may be required by the Authority Having Jurisdiction (AHJ).

Standard and reflective label materials (and the printing ribbons) are available with the Sport printer in white and red. HellermannTyton's vinyl labels are manufactured based on the parameters outlined in Section 690 of the NEC using ultraviolet (UV) resistant permanent acrylic adhesive and a base material intended to endure harsh environmental elements. These pre-saved label designs, when pre-printed on the vinyl label stock, meet the governing requirements for durability, color, text height and visibility and can be applied to most surfaces.

Features

- 2.62" x 1.31" viewable LCD screen shows five lines and offers high resolution (256 x 128 pixels)
- Text/image auto-size eliminates time-consuming "guess-and-check" label design process
- Intuitive soft key menu system for easy navigation and label design
- Lightweight design with convenient hand strap for optimal portability
- 250 pre-installed safety symbols updated to the most-current ANSI standards
- Print 100' of labels before recharging battery
- Truly rugged printer body and internal components meet industrial expectations
- Manual precision cutter provides clean, sharp label edges
- 203 dpi print resolution gives clarity and visibility to label messages and images
- Indoor/Outdoor Premium Vinyl Tape sizes ½", 1" and 2" in width
- Industrial-grade ribbon and tape is resistant to chemicals, moisture, abrasion and fading
- Save up to 32 label designs for future print jobs
- Prints Bar Codes
- Print Preview to actual size

Designing a label is as easy as typing out the text and then selecting a font size.



Step 1) Turn on unit, press the FILE button and select one of the many pre-saved templates.

Step 2) Press the print button to start the printing process.

Step 3) Remove and apply your printed label.

Save Time.
Minimize Expenses.
Eliminate Hassles.

No more inspection delays. No more waiting on labels ordered.

No more errors and the frustration of waiting on corrections.

No more missing labels and editing aggravation.

The Sport portable printer is perfect for creating standardized markers for solar and wind installations, as well as for producing Arc Flash Labels.

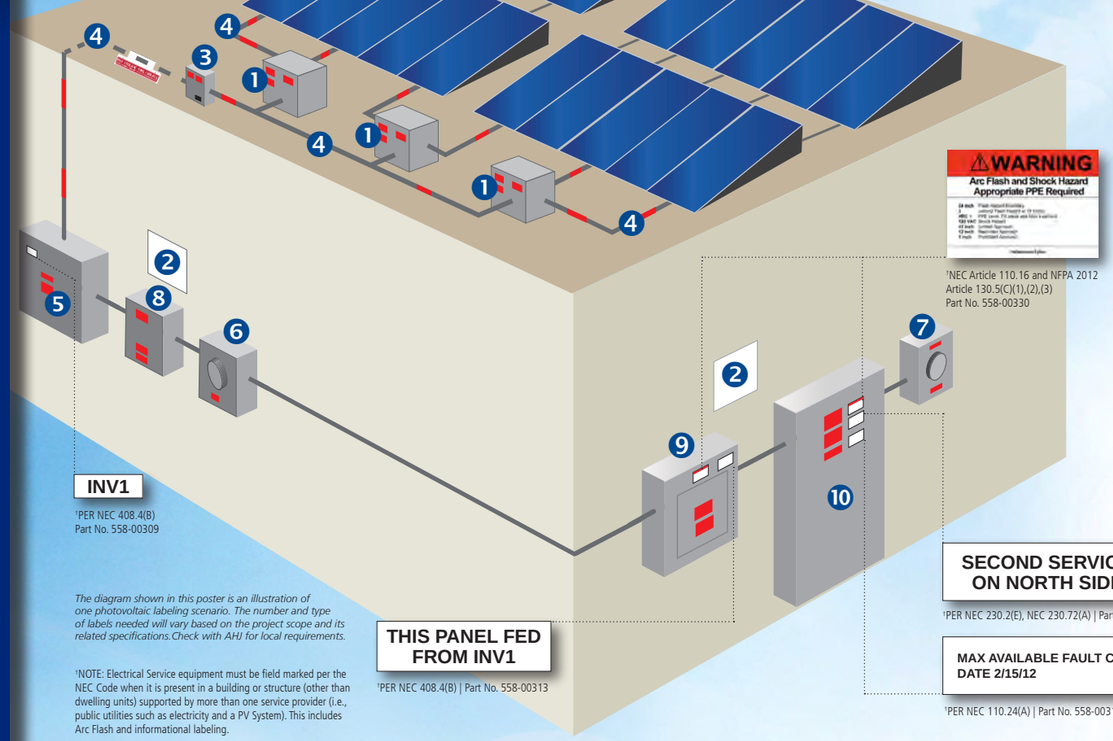
With the Sport hand held thermal transfer printer, you can print labels at a job site and avoid costly interruptions while having the flexibility to address unexpected requirements with immediate solutions. The Sport mobile printer produces ARC Flash labels, wire labels and vinyl signs that can be up to 2" wide, accommodating standard stock labels of ½", 1" and 2". This convenient printer also has a long-life battery that allows for hours of printing between charges.

And . . . the Sport comes loaded with the most common Solar Installation Label templates. Turn the printer on, find the label needed on the supplied label chart, open the pre-saved design, then print the label. The diagram displays exactly how the label will look before it prints. Not to mention, no time is invested in reading a manual for the purpose of setting up label designs – another time-saving benefit this handy device offers to those installers looking for the simple and straightforward approach to labeling a photovoltaic system.

Note: Red and white vinyl tapes are available for meeting solar installation labeling requirements.
The Sport printer includes black and white ribbons.
Representations of the label options to the right are pre-saved on the Sport.

PHOTOVOLTAIC SYSTEM LABELING REQUIREMENTS

NEC 2011 Article 690 and IFC 2012



The diagram shown in this poster is an illustration of one photovoltaic labeling scenario. The number and type of labels needed will vary based on the project scope and its related specifications. Check with AHJ for local requirements.

[1]NOTE: Electrical Service equipment must be field marked per the NEC Code when it is present in a building or structure (other than dwelling units) supported by more than one service provider (i.e., public utilities such as electricity and a PV System). This includes Arc Flash and informational labeling.

[1]PER NEC 408.4(B) | Part No. 558-00313

[1]PER NEC 408.4(B) Part No. 558-00309

[1]NEC Article 110.16 and NFPA 2012 Article 130.5(C)(1),(2),(3) Part No. 558-00330

[1]PER NEC 230.2(E), NEC 230.72(A) | Part No. 558-00313

[1]PER NEC 110.24(A) | Part No. 558-00313

Adhesive Fastened Signs

"Adhesive fastened signs may be acceptable if properly adhered. Vinyl signs shall be weather resistant." IFC 605.11.1.3

"The markings shall be of sufficient durability to withstand the environment involved." NEC 110.21

* "The materials used for marking shall be reflective, weather resistant and suitable for the environment." IFC 605.11.1.1

1 Combiner Box / Circuits / Enclosures

WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS. TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

PER NEC 690.17(4) | Part No. 596-00233

WARNING
ELECTRIC SHOCK HAZARD
THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

PER NEC 690.35(F) | Part No. 596-00258

2 Building / Structure

CAUTION
POWER TO THIS SERVICE IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN

PER NEC 690.56(B) | Part No. 558-00350

WARNING:
TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

PER NEC 110.27(C) & OSHA 1910.145(f)(7) Part No. 596-00235

3 DC Disconnect / Breaker / Recombiner Box

WARNING
ELECTRIC SHOCK HAZARD
THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

PER NEC 690.35(F) | Part No. 596-00258

PHOTOVOLTAIC
DC DISCONNECT

PER IFC 605.11.1, IFC 605.11.1.4, NEC 690.15 & NEC 690.14(C)(2) | Part No. 596-00238

WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS. TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION
DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT

PER NEC 690.17(4) | Part No. 596-00232

PV SYSTEM DC DISCONNECT
OPERATING CURRENT:
OPERATING VOLTAGE:
MAXIMUM SYSTEM VOLTAGE:
SHORT CIRCUIT CURRENT:

NEC 690.53 | Part No. 596-00241

RATED AC OPERATING CURRENT
MAX RATED AC OPERATING CURRENT
RATED AC OPERATING VOLTAGE
MAX RATED AC OPERATING VOLTAGE
RATED SHORT CIRCUIT CURRENT
MAXIMUM SYSTEM VOLTAGE

FOR MARKING BACKUP SYSTEMS Part No. 596-00240

RATED MAX POWER-POINT CURRENT
RATED MAX POWER-POINT VOLTAGE
MAXIMUM SYSTEM VOLTAGE
SHORT CIRCUIT CURRENT
MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER IF INSTALLED

NEC 690.53 | Part No. 596-00253

4 EMT / Conduit Raceways *(Reflective Material Required)*

PHOTOVOLTAIC POWER SOURCE*

PER NEC 690.31(E)(3) & IFC 605.11.1.2 Part No. 596-00206

PHOTOVOLTAIC POWER SOURCE*

PER NEC 690.4(F) | Part No. 596-00257

CAUTION: SOLAR CIRCUIT*

PER NEC 690.31(E)(3) & IFC 605.11.1.2, 605.11.1.4 Part No. 596-00247

5 Inverter

WARNING
ELECTRICAL SHOCK HAZARD
IF A GROUND FAULT IS INDICATED, NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED

PER NEC 690.5(C) | Part No. 596-00234

PHOTOVOLTAIC AC DISCONNECT
MAXIMUM AC OPERATING CURRENT:
MAXIMUM AC OPERATING VOLTAGE:

PER NEC 690.54 | Part No. 596-00239

6 Production / Net Meter

WARNING
ELECTRICAL SHOCK HAZARD
IF A GROUND FAULT IS INDICATED, NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED

PER NEC 690.5(C) | Part No. 596-00234

7 Production / Net Meter (Bi-directional)

(Reflective Material Required)

CAUTION:
SOLAR ELECTRIC SYSTEM CONNECTED*

PER NEC 690.14(C)(2), IFC 605.11.1, IFC 605.11.1.4, NEC 690.15 & NEC 690.53 | Part No. 596-00245

WARNING DUAL POWER SOURCE
SECOND SOURCE IS PV SYSTEM

PER NEC 705.12(D)(4) & NEC 690.64 Part No. 596-00231

8 AC Disconnect / Breaker / Points of Connection

PHOTOVOLTAIC
AC DISCONNECT

PER IFC 605.11.1, IFC 605.11.1.4, NEC 690.15 & NEC 690.14(C)(2) | Part No. 596-00237

NOMINAL OPERATING AC VOLTAGE
NOMINAL OPERATING AC FREQUENCY
MAXIMUM AC POWER
MAXIMUM AC CURRENT
MAX OVERCURRENT DEVICE RATING FOR AC MODULE PROTECTION

PER NEC 690.52 | Part No. 596-00252

WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS. TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

PHOTOVOLTAIC AC DISCONNECT
MAXIMUM AC OPERATING CURRENT:
MAXIMUM AC OPERATING VOLTAGE:

PER NEC 690.14(C)(2) | Part No. 596-00239

9 Breaker Panel / Pull Boxes

WARNING
ELECTRICAL SHOCK HAZARD
IF A GROUND FAULT IS INDICATED, NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED

PER NEC 690.5(C) | Part No. 596-00234

WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS. TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

PER NEC 690.17(4) | Part No. 596-00233

WARNING:
TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

PER NEC 110.27(C) & OSHA 1910.145(F)(7) Part No. 596-00235

WARNING DUAL POWER SOURCE
SECOND SOURCE IS PV SYSTEM

PER NEC 705.12(D)(4) & NEC 690.64 Part No. 596-00231

CAUTION
PV SYSTEM CIRCUIT BREAKER IS BACKFED

PER NEC 705.12(D)(4) & NEC 690.64 Part No. 596-00236

DO NOT DISCONNECT UNDER LOAD

PER NEC 690.33(E)(2) | Part No. 596-00244

PHOTOVOLTAIC AC DISCONNECT
MAXIMUM AC OPERATING CURRENT:
MAXIMUM AC OPERATING VOLTAGE:

PER NEC 690.54 | Part No. 596-00239

WARNING
ELECTRIC SHOCK HAZARD
THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

PER NEC 690.35(F) | Part No. 596-00258

10 Main Service Disconnect *(Reflective Material Required)*

MAIN PV SYSTEM
AC DISCONNECT*

PER NEC 690.14(C)(2), IFC 605.11.1, IFC 605.11.1.4, NEC 690.15 & NEC 690.53 Part No. 596-00243

CAUTION:
SOLAR ELECTRIC SYSTEM CONNECTED*

PER NEC 690.14(C)(2), IFC 605.11.1, IFC 605.11.1.4, NEC 690.15 & NEC 690.53 | Part No. 596-00245

SOLAR DISCONNECT*

PER IFC 605.11.1 | Part No. 596-00246

MAIN PV SYSTEM
DISCONNECT*

PER NEC 690.14(C)(2), IFC 605.11.1, IFC 605.11.1.4, NEC 690.15 & NEC 690.53 Part No. 596-00243

WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS. TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

PER NEC 690.17(4) | Part No. 596-00233

WARNING:
TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

PER NEC 110.27(C) & OSHA 1910.145(F)(7) Part No. 596-00235

Solar PV Systems Labels

HellermannTyton offers all the labels required to pass an on-site inspection for a photovoltaic panel installation. The continuous vinyl rolls are available both in red and white. Reflective labels, also available in red and white, meet the latest IFC 2012 and NEC 2011 codes for marking a PV installation. Additionally, the white label stock is an option for PV and other types of installations per ANSI Z535.4 Article 7.3 in which black lettering can be used on a white background. Solid colors of red and white are supported by ANSI Z535.4 – Article 7.6.2; a benefit in that a minimum of label widths and colors as well as only two ribbon ink cartridges of black and white need be on hand to meet labeling code requirements. All materials are made of UV resistant adhesives and vinyl for long-lasting outdoor durability.

Product Selection

Article No.	Part No.	Type	Pkg. Qty	Description
Reflective Solar Labels				
557-00112	557-00112	OSPLP	1	Sport Printer, White Ribbon, 2" Red Vinyl Roll, Charger, Battery, Instructions
557-00113	557-00113	OSPLPKIT	1	Sport Printer Kit, White Ribbon, 1" & 2" Red Vinyl Roll, 1" Reflective Roll, Charger, Battery, Instructions
591-00231	591-00231	SpindleKit	1	Replacement Spindle Slide and Spindle Cover
591-00076	591-00076	BC10	1	Replacement Battery Charger 120V 60Hz
557-00003	557-00003	RBP1	1	Replacement Battery
557-00002	557-00002	2100CASE	1	Optional Hard Shell Carrying Case
591-00263	591-00263	HT2-Softcase	1	Optional Soft Shell Carrying Case
591-00232	591-00232	HHIGRBG	1	Black Ribbon
591-00233	591-00233	HHIGRWG	1	White Ribbon
591-00243	591-00243	HT1RD30	1	1" Red Vinyl 30 Feet Per Roll
591-00264	591-00264	HT1RDRF20	1	1" Red Reflective Vinyl 20 Feet Per Roll
591-00244	591-00244	HT1WH30	1	1" White Vinyl 30 Feet Per Roll
591-00251	591-00251	HT.5RD30	1	1/2" Red Vinyl 30 Feet Per Roll
591-00252	591-00252	HT.5WH30	1	1/2" White Vinyl 30 Feet Per Roll
591-00259	591-00259	HT2RD30	1	2" Red Vinyl 30 Feet Per Roll
591-00265	591-00265	HT2RDRF20	1	2" Red Reflective Vinyl 20 Feet Per Roll
591-00261	591-00261	HT2WH20	1	2" White Vinyl 30 Feet Per Roll
591-00260	591-00260	HT2WHRF20	1	2" White Reflective Vinyl 20 Feet Per Roll
591-00278	591-00278	HT2AF30	1	2" White/Orange Vinyl 30 Feet Per Roll For Arc Flash Labeling

HellermannTyton

HellermannTyton North American Corporate Headquarters
7930 N. Faulkner Rd, PO Box 245017
Milwaukee, WI 53224-9517
Phone: (414) 355-1130, (800) 537-1512
Fax: (414) 355-7341, (800) 848-9866
email: corp@htamericas.com
www.hellermann.tyton.com
TS16949, ISO 9001, and ISO14001 Certified

HellermannTyton Canada
Unit #4, 205 Industrial Parkway North
Aurora, Ontario L4G 4C4 Canada
Phone: (800) 661-2461
Fax: (800) 390-3904
email: sales@hellermanntyton.ca

HellermannTyton (México) S. de R.L. de C.V.
Anillo Periférico Sur 7980 Edificio 2-D
Parque Industrial Tecnológico II
Santa María Tequepexpan
Tlaquepaque, Jalisco, México 45601
Tel 52+33+ 3133 9880
Fax 52+ 33+ 3133 9861
ISO 9001:2000 Certified

Warranty Policy

HellermannTyton products are warranted to be free from defects in material and workmanship at the time sold by us; but our obligation under this warranty and that of the seller is limited to the replacement of the product, and neither we nor the seller are bound by any other warranty, expressed, implied or statutory. Under no circumstances are we or the seller liable for any loss, damage, expenses or consequential damages of any kind arising out of the use or inability to use these products. All are sold with the understanding that the user will test them in actual use and determine their adaptability for the intended uses.

© HellermannTyton Corporation

LITPD247