

1.0 Reference and Address			
Report Number	3171411PRT-002	Original Issued: 30-Jan-2009	Revised: 7-May-2018
Standard(s)	Inverters, Converters, Controllers And Interconnection System Equipment For Use With Distributed Energy Resources [UL 1741:2010 Ed.2 +R:07Sep2016] Photovoltaic Combiners [CSA C22.2#290:2015 Ed.1]		
Applicant	<u>RSTC Enterprises, Inc.</u>	Manufacturer 1	RSTC Enterprises, Inc.
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Country	USA	Country	USA
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Phone	(715) 830-9997	Phone	(715) 830-9997
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Email	<u>scapozzi@rstcenterprises.com</u>	Email	<u>scapozzi@rstcenterprises.com</u>

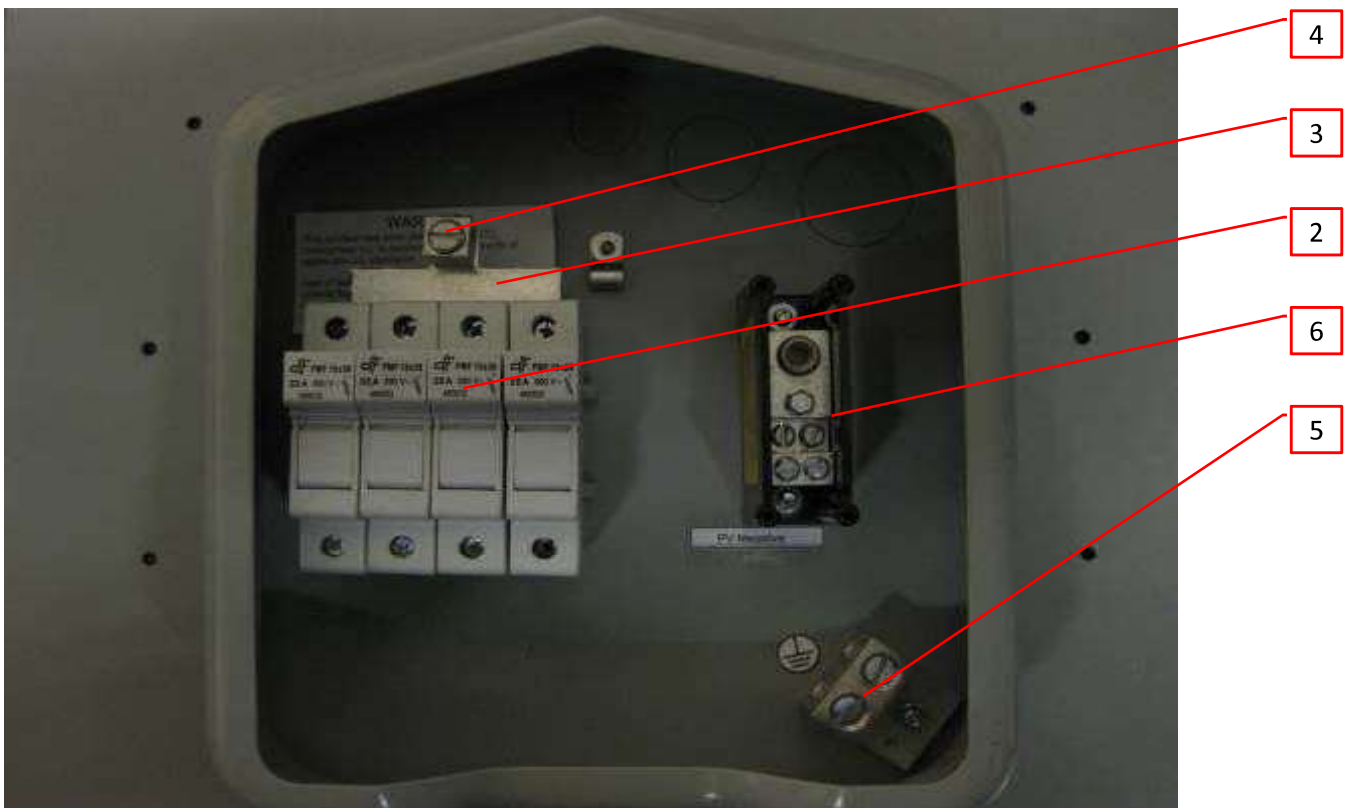
2.0 Product Description	
Product	Electrical Combiner Box
Brand name	RSTC Enterprises
Description	<p>The products covered by this report are a Combiner box (DC and AC power applications) for use with a up to four photovoltaic array inputs, and an output of a single DC/AC source.</p> <p>Product has been tested and found compliant for installation at 14 degrees and above.</p> <p>The product is intended for installation on composite, metal, or rubber roofing.</p>
Models	<p>0783-41, 0786-41, 0760-41AD, 0766-41AD.</p> <p>0799- followed by 2, 5, D, E or EP; followed by B, G or S.</p>
Model Similarity	<p>Models 0783-41 and 0786-41 are similar except for the use of the negative terminal block in unit. The 0783-41 model has its negative terminal block mounted to the enclosure in a stand-alone fashion with up to four inputs and one lug output, while the 0786-41 model has its negative terminals mounted to the DIN rail.</p> <p>Models 0760-41AD and 0766-41AD are identical except that Model 0766-41AD has a 6" deep base for installation on tile and slate roofs. Models 0760-41AD and 0766-41AD are similar to Models 0783-41 and 0786-41 except for component configuration (see section 4.0 for details)</p> <p>All models in the 0799 series are similar in design and construction except for the internal components.</p> <p>The configuration of the models are as follows: "2" is for a two position ground lug, "5" is for a five position ground lug, "D" is for a one position ground lug, "E" is for Enphase bulkheads and a supplementary protection device, "EP" is for Enphase bulkheads, "B" is for a black powder coated enclosure, "G" is for a grey powder coated enclosure, and "S" is for stainless steel enclosure.</p>
Ratings	<p>Models 0783-41, 0786-41: 600VDC, 120A</p> <p>Models 0760-41AD, 0766-41AD: 600VDC, 120A / 240VAC, 60A</p> <p>Models 0799: 1000VDC, 180A / 480VAC, 60A</p>
Other Ratings	Maximum Fuse Short Circuit Current = 10kA. Type 3R

3.0 Product Photographs

Photo 1 - External View of Model 0783. Also Represents Model 0786.



Photo 2 - Internal View of Model 0783



3.0 Product Photographs

Photo 3 - Internal View of Model 0786

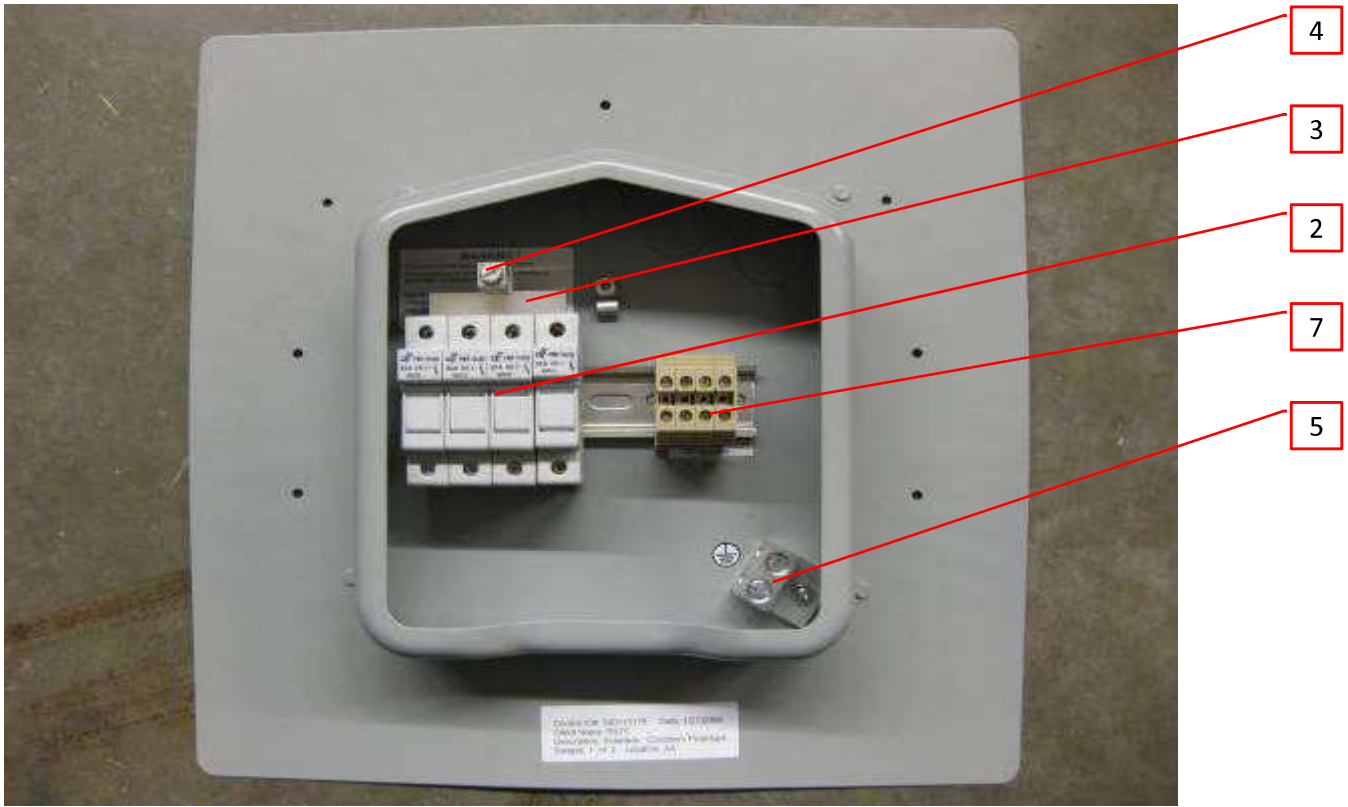
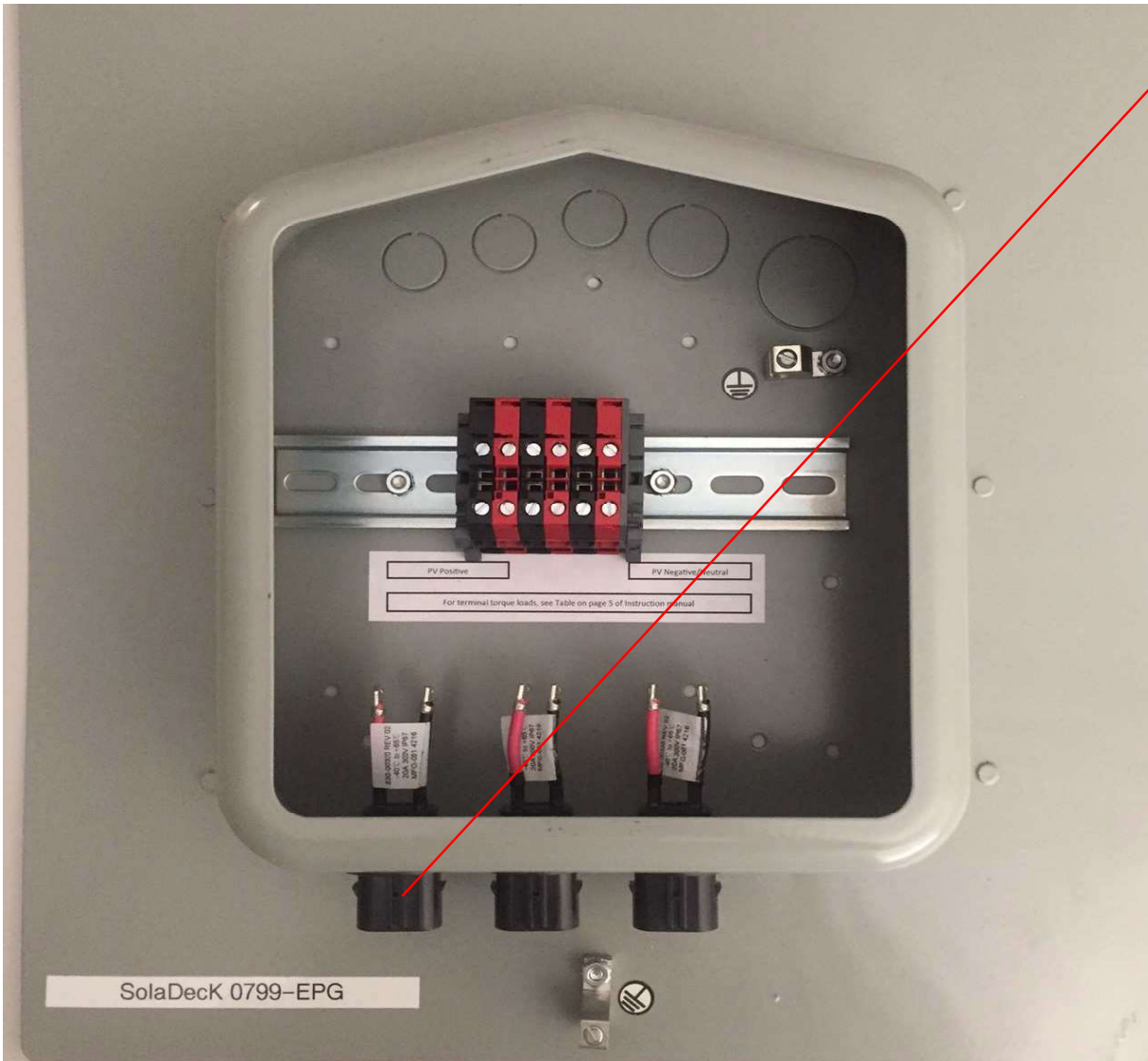


Photo 4 - Grounding Bar



3.0 Product Photographs

Photo 5 - Model 0799 Overall View



16

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	1	Enclosure	RSTC	Galvanized Steel	ETL listed, 18 gauge, 0.055" thick, 15" square at base, 8.75" wide by 10.75" long on cover. Labels adhered to enclosure to comply with UL 969	cETLus
				Stainless Steel	0.0478" thick sheet. 15.752" wide by 17.25" long base. 9.454" wide by 10.963" long compartment. Bare or powder coated.	NR
2,3	2	Fuse Holders	DF	480032	Rated 600V, 30A, 110°C. Up to 10AWG. 10×38 PMF fuse holder. Secured to DIN rail.	UR, CSA
			Littelfuse	LPSM CH	Rated 600V, 30A. 14-8AWG stranded / 14-10AWG solid. 10×38 fuse.	UR, CSA
				LPSC	Rated 600V, 30A. 14-8AWG stranded/solid. 10×38 fuse.	UR, CSA
			Bussman	CHM	Rated 600V, 30A. 18-4AWG stranded/solid. 10×38 fuse.	UR, CSA
				CHPV	Rated 1000V, 30A. 18-4AWG stranded/solid. 10×38 fuse.	UR, CSA
			Marathon	6Sm30AX-C	Rated 600V, 30A. 18-8AWG stranded / 14-10AWG solid. 10×38 fuse.	UR, CSA
			Ferraz	FRZ USM 1	Rated 800Vac, 1000Vdc, 30A. 14-6AWG stranded/solid. 10×38 fuse.	UR, CSA
Mersen	USM 1	Rated 800Vac, 1000Vdc, 30A. 14-6AWG stranded/solid. 10×38 fuse.	UR, CSA			
2,3	3	Positive Bus Bar	Storm Copper	C110	Tin plated copper. Approximately 0.08" thick. Each positive input to terminal 0.25" wide by 0.49" long. Common bus 0.51" wide by 2.35" long. Provision for terminal lug approximately 0.53" square.	NR
2,3	4	Terminal Lug	Ilisco	CA4SP	14-2AWG Cu wire. Rated 600V, 75°C.	UR, CSA
2,3	5	Grounding Terminal	Electric Motion	2-2/0T	14-2/0AWG. Secured to enclosure by stud.	UL, CSA
				EM 4250-5-SSO	14-6AWG. Secured to enclosure by stud.	UL, CSA
			IHI Connectors	2S2/0	14-2/0AWG Cu9Al. Secured to enclosure by stud.	UL, CSA
			Thomas & Betts Corp	LL414	14-4AWG. Rated 90°C.	UR, CSA

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
2	6	Negative Terminal Block	IlSCO	PDC-14-2/0-1	14-2/0AWG primary wire, 14-4AWG secondary wire. Rated 600V, 175A per pole, 90°C.	UR, CSA
			Bussmann	DBFS220	4-2/0AWG primary wire, 8-4AWG secondary wire. Rated 600V, 175A per pole.	UR, CSA
			Various	Various	8-2/0AWG primary wire, 14-4AWG secondary wire. Rated 600V, 175A per pole. Construction similar to Bussmann DBFS220.	UL
3	7	Negative Terminal Block	IMO Precision Controls	ER6	26-8AWG Cu wire range. Rated 600V, 50A.	UR, CSA
				ER10	16-6AWG Cu wire range. Rated 600V, 65A. Used in construction with bus bar attached for single lug output.	UR, CSA
				ER16PV	12-4AWG Cu wire range. Rated 1000V, 85A, 105°C.	UR, CSA
				ER35PV	12-2AWG Cu wire range. Rated 1000V, 115A, 105°C.	UR, CSA
			ABB	M6/8	24-8AWG Cu wire range. Rated 600V, 50A.	UR, CSA
				M10/10	22-6AWG Cu wire range. Rated 600V, 65A.	UR, CSA
				ZS6	24-10AWG wire range. Rated 600V, 30A, 105°C.	cURus
				ZS10	24-6AWG wire range. Rated 600V, 42A, 105°C.	cURus
ZS16	24-4AWG wire range. Rated 600V, 67A, 105°C.	cURus				
ZS50	18-0AWG wire range. Rated 1000V, 140A, 105°C.	cURus				
2,3	9	Negative Bus Bar (not shown)	Storm Copper	C110	Tin plated copper. Approximately 0.08" thick. Each tang to negative terminal 0.187" wide by 0.875" long.	NR
3	10	Single Pole Distribution Blocks (not shown)	ABB France	BRU 80	Rated 600V, 80A. DIN rail mounted distribution blocks.	UR, CSA
				BRU 125 A	Rated 600V, 125A. DIN rail mounted distribution blocks.	UR, CSA
				DBL 80	14-4AWG wire range. Rated 1000V, 80A.	UR, CSA
				DBL 125	8-2AWG wire range. Rated 1000V, 115A.	UR, CSA
3	11	AC Circuit Breakers (not shown)	ABB Germany	S202U-Z20	Rated 240Vac, 20A. DIN rail mounted 2 pole circuit breaker.	UR, CSA
				S202U-Z15	Rated 240Vac, 15A. DIN rail mounted 2 pole circuit breaker.	UR, CSA
				SU202M-C20	Rated 480Y/277Vac, 96Vdc, 20A.	cULus
				SU202M-Z15	Rated 480Y/277Vac, 96Vdc, 15A.	cULus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
3	12	Supplementary Protectors (DC) (not shown)	ABB Germany	S280UC-K	Rated 500Vdc, 16A. DIN rail mounted dc supplementary protectors.	UR, CSA
3	13	AC Surge Protective Device (not shown)	Citel America	DS42-120	Rated 40kA, 1.5kV (L/PE), 0.9kV (L/N). DIN rail mounted surge protective device. For use on 120V, single phase, TN power system.	cURus
3	14	DC Surge Protective Device (not shown)	Citel America	DS50PV	Rated 600Vdc, max. 40kA. DIN rail mounted surge protective device. For use on a DC power system.	cURus
4	15	Grounding Bar	Brumall Mfg. Corp.	4-14 (4-9, 1, 9) RS	14-4 AWG Cu9Al wire range.	UR, CSA
5	16	Bulkhead	Enphase Energy Inc	830-00320	Rated 277Vac, 20A, -40° to 79°C.	cURus
5	17	Fuse (not shown)	Cooper Bussmann LLC	PVM-15	Rated 600Vdc, 15A.	UL, CSA
			Littelfuse Inc	KLKD015	Rated 600Vdc, 15A.	UL, CSA
				SPF020	Rated 1000Vdc, 20A.	UL, CSA
5	18	Terminal Block Jumper Bar (not shown)	ABB France	JB8-2	2-poles, 8mm spacing. Rated 600V, 42A, 110°C, V-0.	cURus
				JB8-3	3-poles, 8mm spacing. Rated 600V, 42A, 110°C, V-0.	cURus
				JB8-4	4-poles, 8mm spacing. Rated 600V, 42A, 110°C, V-0.	cURus
				JB8-5	5-poles, 8mm spacing. Rated 600V, 42A, 110°C, V-0.	cURus
				JB8-10	10-poles, 8mm spacing. Rated 600V, 42A, 110°C, V-0.	cURus
5	19	Gland Fitting (not shown)	Heyco Products Inc	LTCG 3/8	0.105 - 0.315 cable diameter range. Rated V-2, -40° - 115°C.	cULus
				LTCG 1/2	0.170 - 0.450 cable diameter range. Rated V-2, -40° - 115°C.	cULus
				LTCG LL 1/2	0.260 - 0.545 cable diameter range. Rated V-2, -40° to 115°C.	cULus
5	20	Busbar (not shown)	ABB Stotz-Kontakt GmbH	PS2/6/16BP	Rated 600V, 115A.	cULus
				PS2/56/25BP-C	Rated 600V, 100A.	cULus
5	21	Busbar Terminal Block (not shown)	ABB Stotz-Kontakt GmbH	SZ-ESK BP	14-1AWG. Rated 1000V, 115A.	cULus

NOTES:

- 1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.
- 2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.
- 3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.

5.0 CEC Components

No Unlisted CEC components are used in this report.

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing - In primary circuits, 58 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 9.7 mm minimum between such current-carrying parts and dead-metal parts. Refer to Illustration 1 for areas to verify. Standard requires spacing of 9.5 mm through air, 9.7 mm was measured between negative terminal block metal and the exposed metal of the mounting stud on model 0783-41 only.
2. Mechanical Assembly - Components such as switches, fuse holders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lock washers, star washers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a metal enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - All exposed dead-metal parts and all dead-metal parts within the enclosure that are exposed are connected to the equipment grounding terminal. The grounding terminal is secured and bonded to the enclosure, properly grounding all exposed metal parts.
6. Internal Wiring - Field installed wiring shall comply with the minimum wiring bending space requirements of Table 17.2. No internal wiring installed as part of Listing evaluation. All wiring to be conducted at time of installation and shall comply with minimum space requirements.
7. Schematics - No schematics required, unit does not have component interconnection.
8. Markings - The product is marked as described as follows: manufacturer's name, model number, date of manufacturer, electrical ratings, and short circuit ratings (10 kA), enclosure type designation, use of copper conductors, tightening torque reference, and appropriate terminal markings. Refer to illustration 2 for nameplate example.

The following markings in French are required: See Illustrations 2, 4.

9. Cautionary Markings - The following are required: Refer to Illustration 2, 4 for marking examples.
10. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer. Refer to Illustration No(s). 3, 3a, 5 - 9 for details.

7.0 Illustrations

Illustration 1 - Spacings

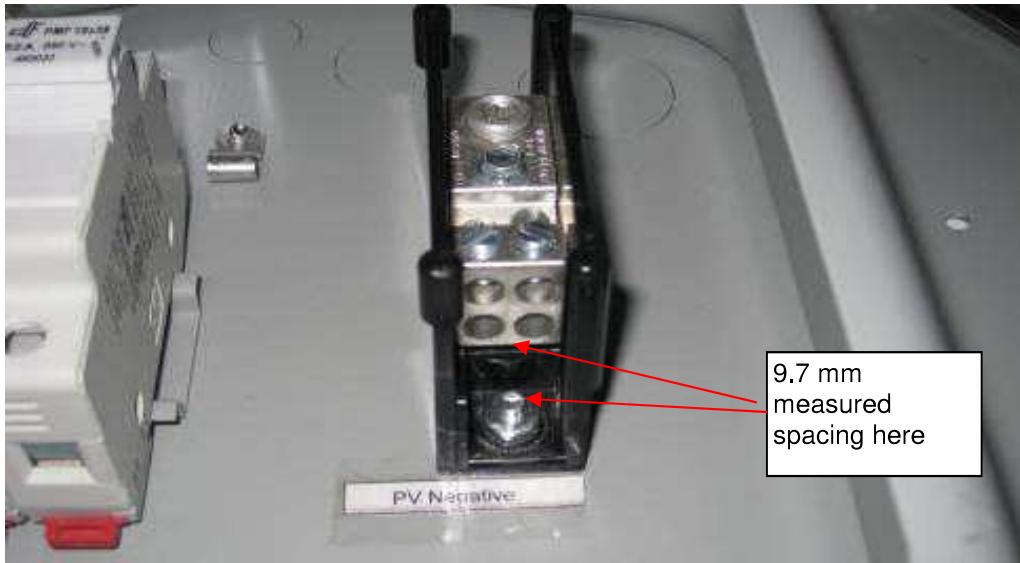


Illustration 2 - Nameplate Example

SOLADECK Photovoltaic Combiner / Enclosure

Q1 Q2 Q3 Q4 Q9 10 11 12

Model 0783-41 Model 0786-41

Maximum Ratings: 600VDC, 120 AMPS Frequency DC

Warning! For continued protection against risk of fire, replace only with the same type and ratings of fuse with equal or greater interrupt.

Caution Risk of Electric Shock - DC voltage sources are terminated inside this equipment. Each circuit must be individually disconnected before servicing. When the Photovoltaic array is exposed to light, it supplies DC voltage to this equipment. Do not remove cover. Refer servicing to qualified service personnel

Attention! risque de choc électrique - sont sources de tension DC résidé à l'intérieur de cet équipement. Chaque circuit doit être individuellement déconnectée avant l'entretien. Lorsque le générateur photovoltaïque est exposés à la lumière, elle fournit la tension continue à cet équipement. Ne pas enlever le couvercle. Confiez l'entretien à un personnel qualifié.

Avertissement Pour une protection continue contre les risques d'incendie, remplacez seulement avec le type et la même cote de mèche avec une égale ou supérieure interrompre. Combinateur de caisse doit être situé lorsqu'elle est accessible par un personnel qualifié seules les personnes

Fuse holders and terminal blocks added in the field must be UL listed or recognized and meet 600 VDC 30 AMP 110C for fuse holders, 600V 50 AMP 90C for Rail mounted terminal blocks and 600 V 175 AMP 90C for Power Distribution Blocks. Use Copper Wire Conductors. Combiner box shall be located where accessible by qualified persons only

RSTC Enterprises, Incorporated
2219 Heimstead Road
Eau Claire, WI 54703
1-866-367-7782

SOLADECK Photovoltaic Combiner / Enclosure

Q1 Q2 Q3 Q4 Q9 10 11 12

Model 0760-41AD Model 0766-41AD

Maximum Ratings: 600VDC / 120 AMPS, 240VAC/60 Amps

Warning! For continued protection against risk of fire, replace only with the same type and ratings of fuse with equal or greater interrupt.

Caution Risk of Electric Shock - DC voltage sources are terminated inside this equipment. Each circuit must be individually disconnected before servicing. When the Photovoltaic array is exposed to light, it supplies DC voltage to this equipment. Do not remove cover. Refer servicing to qualified service personnel

Attention! risque de choc électrique - sont sources de tension DC résidé à l'intérieur de cet équipement. Chaque circuit doit être individuellement déconnectée avant l'entretien. Lorsque le générateur photovoltaïque est exposés à la lumière, elle fournit la tension continue à cet équipement. Ne pas enlever le couvercle. Confiez l'entretien à un personnel qualifié.

Avertissement Pour une protection continue contre les risques d'incendie, remplacez seulement avec le type et la même cote de mèche avec une égale ou supérieure interrompre. Combinateur de caisse doit être situé lorsqu'elle est accessible par un personnel qualifié seules les personnes

Fuse holders, breakers, terminal blocks added in the field must be UL listed or recognized and meet 600 VDC 110C for fuse holders, 600V 50 AMP 90C terminal blocks and 600 V 90C for Power Distribution Blocks. 500 VDC 16 amp breakers, 120/208 VAC 20 amp breakers. Copper wire conductors.

Locate enclosure where accessible by qualified persons only

RSTC Enterprises, Incorporated
2219 Heimstead Road
Eau Claire, WI 54703
1-866-367-7782

7.0 Illustrations

Illustration 3 - Warning in Instruction Manual



Illustration 3a - French Warning in Instruction Manual



7.0 Illustrations

Illustration 4 - Warning on Interior of Product

WARNING!

This product has been designed by RSTC Enterprises, Inc. to exceed the requirements of applicable UL standards. Use of components not meeting the UL 1741 test criteria for this part and stated on the product label may affect user safety, system reliability and may void the UL listing.

ATTENTION!

Ce produit a été conçu par RSTC Enterprises, Inc de dépasser les exigences des normes applicables en UL. Utilisation de composants ne répondant pas aux UL 1741 critères de test pour cette partie et mentionné sur le l'étiquette du produit mai affecter la sécurité des usagers, le système fiabilité et mai void la liste UL.

7.0 Illustrations

Illustration 5 - Installation Instructions (Covers All Models in this Report)

SolaDeck Installation Instructions

1. Determine the location for the SolaDeck on the roof surface.
2. Use the template from the SolaDeck Carton and position it $\frac{3}{4}$ " below the shingle line. Trace the outline on the roof (Fig. 1).
3. Use a pry bar to loosen the shingles and remove any nails that will interfere with the flashing sliding beneath the shingles (Fig. 2).
4. Cut the roofing material to the template shape.
5. Inside of the base there are three knockout sizes. Remove the one (s) needed for the conduit fitting (s).
6. Slide the SolaDeck with flashing beneath the shingles into place and trace the knockout hole (s) (Fig. 3).
7. Drill out the traced knockout hole (s) $\frac{1}{3}$ larger than the knockout.
8. Slide the SolaDeck base back into place and fasten it to the roof deck with the 1" truss head screws provided. (Fig 4).
9. Use a quality roof sealant to seal the shingles to the SolaDeck flashing.
10. With the base installed, you have several options to wire the SolaDeck enclosure. Use either the sump built into the base or the predetermined centering dimples to knock out a hole for the fitting or conduit size you choose.
 - Dimples at the corners of the base allow for $\frac{1}{2}$ " or $\frac{3}{4}$ " fittings.
 - Dimples below the sump allow for $\frac{1}{2}$ " fittings.
 - These dimple positions accept conduit, liquid tight or strain relief fittings.
11. Peel off the tape on the foam Gasket and position it on the inside of the cover where it will contact the base sump.
12. When connections are complete, finish by fastening the cover to the base using the 8-32 screws with bonded seal washers provided.

*NOTE: Extra steel studs are provided for installing an isolated negative terminal or power distribution block



7.0 Illustrations

Illustration 6 - Installation Instructions (Continued)

Warranty Information:

Thank you for your purchase. As with all manufactured devices repairs may be needed due to damage, unauthorized use, or defect.

- Warranty repairs must conform to warranty terms.
- Equipment must be installed according to the instructions and manuals provided.
- Products returned must be packaged, properly addressed and shipped prepaid.
- There is no additional allowance or reimbursement for installer or user labor or travel time required to disconnect, service or reinstall the damaged component(s).
- RSTC will ship a replacement product prepaid to addresses in the continental United States.
- In the event of a product malfunction, RSTC will not bear any responsibility for resulting losses, expenses, or damage to other components.

**DO NOT PROCEED WITH INSTALLATION UNTIL YOU HAVE READ
ENTIRE INSTRUCTIONS INCLUDING WARNINGS**

WARNING! STOP

**DO NOT WORK ON ROOF IF SURFACE IS WET,
FROSTED, ICE OR SNOW COVERED.
USE LADDERS SAFELY
USE HAND & EYE PROTECTION WHEN
WORKING WITH POWER TOOLS
USE EXTREME CAUTION TO AVOID CONTACT
WITH POWER LINES. CONTACT WITH POWER
LINES, ELECTRIC LIGHTS OR POWER CIRCUITS
MAY BE FATAL**

Installation of this product should be attempted only by individuals skilled in the use of the tools and equipment necessary for installation. Protect you and all persons and property during installation. If you have any doubt concerning your competence or expertise, consult a qualified expert to perform the installation. R.S.T.C. Enterprises Incorporated assumes no responsibility for the failure of an architect, contractor, installer, or building owner to comply with all applicable laws, building codes and requirements, and adequate safety precautions.

ATTENTION! STOP

**NE FONCTIONNE PAS SUR LE TOIT Si la surface
est mouillée, dépolie, la glace ou couvert de
neige.
Utiliser les échelles TOUTE SÉCURITÉ
UTILISATION DES MAINS ET DES LUNETTES DE
PROTECTION LORS DE TRAVAILLER AVEC LES
OUTILS DE PUISSANCE
UTILISATION EXTRÊME PRUDENCE POUR
ÉVITER LE CONTACT AVEC DES LIGNES DE
PUISSANCE. CONTACT AVEC DES LIGNES DE
PUISSANCE, lumières électriques circuits
électriques ou PEUT ÊTRE MORTEL**

L'installation de ce produit devrait être tentée que par des personnes formées à l'utilisation des outils et équipements nécessaires pour l'installation. Protégez vous et les personnes et les biens pendant l'installation. Si vous avez un doute concernant votre compétence ou l'expertise, consulter un expert qualifié pour effectuer l'installation. RSTC Enterprises Incorporated décline toute responsabilité de l'échec d'un architecte, entrepreneur, installateur ou propriétaire d'immeuble pour se conformer à toutes les lois, les codes du bâtiment et des exigences, et les précautions de sécurité adéquates.

One Year Limited Warranty

Important: Evidence of original purchase is required for warranty service.

WARRANTOR: RSTC Enterprises Incorporated

ELEMENTS OF WARRANTY: RSTC warrants for one year to the original retail owner, this product is free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WHAT IS NOT COVERED: This warranty covers only defects in materials and workmanship provided by RSTC Enterprises, and does not cover equipment damage or malfunction from misuse, abuse, accident, and act of God. Installation must be in accordance with our written instructions. RSTC Enterprises will not be liable for any installation charges associated with replacement, incidental or consequential damages resulting from your use of or inability to use this product.

REMEDY: Your only remedy under this warranty is the exchange or replacement in the event that the product does not conform to this warranty. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

CLAIMS PROCESS: To make a claim under this warranty, the product should be shipped postage paid, with original purchase receipt to:

RSTC ENTERPRISES
2219 HEIMSTEAD ROAD
EAU CLAIRE, WI 54703
1-866-367-7782 or www.soladeck.com

7.0 Illustrations

Illustration 7 - Installation Instructions (Continued)

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS- This manual contains important instructions for models 0760-41AD and 0766-41AD that shall be followed during installation of the combiner.

SolaDeck models are listed by ETL as PV Combiners under the standard:

UL 1741, First Edition, CSA 29, CSA C22.2#107.1 ED:3

SolaDeck models meet UL 50 Type 3R rainproof requirements.

This enclosure is rated for up to 600 V fuses, 500VDC Breakers, 240 AC Breakers

Grounding Instructions- Each system should be connected to a grounded, permanent wiring system. All system wiring and system grounding must comply with NEC Code, ANSI/NFPA 70-1996, or other appropriate codes and is the responsibility of the installer.



The equipment ground on SolaDeck is marked with the symbol:

Note: Solar panels produce electrical current when lighting is present, even during overcast weather. Do not wire from the array to the SolaDeck combiner. Complete all connections inside the SolaDeck combiner first and then connect the array.

General Wiring Installation Instructions

- Remove the necessary knockouts before securing the SolaDeck to the roof or other surface.
- Follow the mounting instructions page 3
- Slide the fuse holders / breakers onto the din rail and lock in place.
- Secure the bus bar to the fuse holders / breakers.
- Install the rail mount power distribution block or individual terminal blocks in the location designated for the negative / neutral terminal.
- Connect all wires to fuse holders / breakers, bus bar lug and negative terminals, securing them according to the listed torque values from table on page 5 and 6.
- Conduit and Strain relief fittings and hubs must comply with UL 514B

7.0 Illustrations

Illustration 8 - Installation Instructions (Continued)

Requirements: Use minimum 75 C copper
Use only code approved, appropriately listed fuse holders and Fuses

Maximum Fuse Rating	30 AMP , 600 Volt
Total Maximum Current Rating	783-41 / 786-41 120 AMPS DC
Maximum Fuse Short Circuit Current	10ka
Fuse Holder Torque	13.6 in lb Flat or Phillips Head Driver
Din Rail Mounted Terminal Block Torque	9 - 14 in lb Flat Head Driver

Torque Data* for Box Lug

Wire Size		Torque	
AWG	mm2	in lbs	Nm
14-10	2.1-5.3	35	4
8	8.4	40	4.5
6-4	13.3-21.2	45	5.1
2	13.3-21.2	50	5.7

Torque Data* for Negative Power Distribution Blocks

Wire Size		Torque		
Stud Mounted		Screw Driver	External Drive Wrench	
AWG	mm2	in lbs		Nm
14-10	2.1-5.3	35	75	4
8	8.4	40	75	4.5
6-4	13.3-21.2	45	110	5.1
Main 2/0-14	13.3-21.2	0	120	5.7
Rail Mounted BRU80A		Screw Driver	External Drive Wrench	
AWG	mm2	in lbs		Nm
14-10	2.5-6	7		0.8
Main 4-14	2.5-16	13.5		1.5
Rail Mounted BRU125A		Screw Driver	External Drive Wrench	
AWG	mm2	in lbs		Nm
14-6	2.5-16	17.6		2
Main Left 8-2	10-35	31		3.5
Main Right 10-6	6-16	31		3.5

Torque Data* for Ground Lug

Wire Size		Torque	
AWG	mm2	in lbs	Nm
14-10	2.1-5.3	35	4
8	8.4	40	4.5
6-4	13.3-21.2	45	5.1
2-2/0	13.3-21.2	50	5.7

7.0 Illustrations

Illustration 9 - Installation Instructions (Continued)

DO NOT PROCEED WITH INSTALLATION UNTIL YOU HAVE READ ENTIRE INSTRUCTIONS INCLUDING WARNINGS

WARNING! STOP

**DO NOT WORK ON ROOF IF SURFACE IS WET, FROSTED, ICE OR SNOW COVERED.
USE LADDERS SAFELY
USE HAND & EYE PROTECTION WHEN WORKING WITH POWER TOOLS
USE EXTREME CAUTION TO AVOID CONTACT WITH POWER LINES. CONTACT WITH POWER LINES,
ELECTRIC LIGHTS OR POWER CIRCUITS MAY BE FATAL**

Installation of this product should be attempted only by individuals skilled in the use of the tools and equipment necessary for installation. Protect you and all persons and property during installation. If you have any doubt concerning your competence or expertise, consult a qualified expert to perform the installation.
R.S.T.C. Enterprises Incorporated assumes no responsibility for the failure of an architect, contractor, installer, or building owner to comply with all applicable laws, building codes and requirements, and adequate safety precautions.

ATTENTION! STOP

**NE FONCTIONNE PAS SUR LE TOIT Si la surface est mouillée, dépolie, la glace ou couvert de neige.
Utiliser les échelles TOUTE SÉCURITÉ
UTILISATION DES MAINS ET DES LUNETTES DE PROTECTION LORS DE TRAVAILLER AVEC LES
OUTILS DE PUISSANCE
UTILISATION EXTRÊME PRUDENCE POUR ÉVITER LE CONTACT AVEC DES LIGNES DE PUISSANCE.
CONTACT AVEC DES LIGNES DE PUISSANCE, lumières électriques circuits électriques ou PEUT ÊTRE
MORTEL**

One Year Limited Warranty

Important: Evidence of original purchase is required for warranty service.

WARRANTOR: RSTC Enterprises Incorporated

ELEMENTS OF WARRANTY: RSTC warrants for one year to the original retail owner, this product is free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WHAT IS NOT COVERED: This warranty covers only defects in materials and workmanship provided by RSTC Enterprises, and does not cover equipment damage or malfunction from misuse, abuse, accident, and act of God. Installation must be in accordance with our written instructions. RSTC Enterprises will not be liable for any installation charges associated with replacement incidental or consequential damages resulting from your use of or inability to use the product.

REMEDY: Your only remedy under this warranty is the exchange or replacement in the event that the product does not conform to this warranty. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

CLAIMS PROCESS: To make a claim under this warranty, the product should be shipped postage paid, with original purchase receipt to:

RSTC ENTERPRISES
2219 HEIMSTEAD ROAD
EAU CLAIRE, WI 54703
1-866-367-7782 or www.soladeck.com

Hardware List

A – (7) # 10 – 1” Phillips head wood screws **D – (2) 10-32 – ½” Steel studs**
B – (4) 8-32 – ½” Phillips head threading machine screws **E – (2) # 10 Star nuts**
C – (4) #10 - Bonded seal washers

ETL Listed and Labeled to UL50 Type 3R, CSA C22.2#94 ED4

SolaDeck Models 0783-3R and 0786-3R

www.soladeck.com

7.0 Illustrations

Illustration 10 - Minimum Wire Bending Space: Table 17.2

Table 17.2
Minimum wire-bending space and width of gutter for conductors through a wall not opposite terminals in mm (inches)

Table 17.2 revised January 17, 2001

Size of wire, AWG or kcmil (mm ²)	Wires per terminal (pole)									
	1		2		3		4		5	
	mm	(inch)	mm	(inch)	mm	(inch)	mm	(inch)	mm	(inch)
14 – 10 (2.1 – 5.3)	Not specified		–	–	–	–	–	–	–	–
8 – 6 (8.4 – 13.3)	38.1	(1-1/2)	–	–	–	–	–	–	–	–
4 – 3 (21.1 – 26.7)	50.8	(2)	–	–	–	–	–	–	–	–
2 (33.6)	63.5	(2-1/2)	–	–	–	–	–	–	–	–
1 (42.4)	76.2	(3)	–	–	–	–	–	–	–	–
1/0 – 2/0 (53.5 – 7.4)	88.9	(3-1/2)	127	(5)	178	(7)	–	–	–	–
3/0 – 4/0 (85.0 – 107)	102	(4)	152	(6)	203	(8)	–	–	–	–
250 (127)	114	(4-1/2)	152	(6)	203	(8)	254	(10)	–	–
300 – 350 (152 – 177)	127	(5)	203	(8)	254	(10)	305	(12)	–	–
400 – 500 (203 – 253)	152	(6)	203	(8)	254	(10)	305	(12)	356	(14)
600 – 700 (304 – 355)	203	(8)	254	(10)	305	(12)	356	(14)	406	(16)
750 – 900 (380 – 456)	8	(203)	305	(12)	356	(14)	406	(14)	457	(18)
1000 – 1250 (507 – 633)	254	(10)	–	–	–	–	–	–	–	–
1500 – 2000 (760 – 1010)	305	(12)	–	–	–	–	–	–	–	–

Note – This table includes only those multiple-conductor combinations that are commonly used. Combinations not specified shall be further investigated.


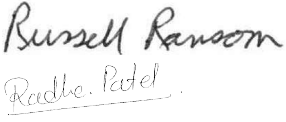
8.0 Test Summary			
Evaluation Period	01/26/09-01/29/09		Project No. 3171411
Sample Rec. Date	1/26/2009	Condition	Prototype
			Sample ID. 1,2
Test Location	Intertek, 2595 SW 153rd Dr. Beaverton, OR 97006		
Test Procedure	Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
The following tests were performed:			
Test Description	UL 1741 11/05 Clause	--	--
Dielectric Voltage-Withstand Test	44	--	--
Grounding Impedance Test	48	--	--
Static Load Test	59	--	--
Rain Test	61	--	--

Evaluation Period	3/29/2010		Project No. G100065282
Sample Rec. Date	3/29/2010	Condition	Prototype
			Sample ID. N/A
Test Location	Intertek, 2595 SW 153rd Dr. Beaverton, OR 97006		
Test Procedure	Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
No tests were deemed necessary to Add Models 0760-41AD and 0766-41AD based on similarity to originally evaluated Models 0783-41 and 0786-41. Also CSA C22.2 No. 107.1-01. General Use Power Supplies (Reaffirmed 2006) was added to the Listing covered under this report. No tests were deemed necessary based on Engineering judgement and tests covered under original evaluation of UL 1741.			

Evaluation Period	March 19th, 2012		Project No. G100683439
Sample Rec. Date	2/9/2012	Condition	Production
			Sample ID. PRT1202091044-001
Test Location	Intertek, 22887 NE Townsend Way, Fairview, OR 97024		
Test Procedure	Intertek Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
The following tests were performed:			
Test Description	UL 1741 Clause	CSA C22.2 No. 107.1-01 Clause	--
Rain Test	61.2	--	--

Evaluation Period	11/14/2016		Project No. G102803874SVN
Due to previous testing performed and reported above no additional testing was necessary for Inverters, Converters, Controllers And Interconnection System Equipment For Use With Distributed Energy Resources [UL 1741:2010 Ed.2 +R:07Sep2016]. CSA C22.2#107.1 Issued: 2001/09/01 Ed: 3 (R2011) General Use Power Supplies.			

8.0 Test Summary			
Evaluation Period	11/6/2017 - 4/9/2018		Project No. G103260700
Sample Rec. Date	31-Oct-2017	Condition Production	Sample ID. CRT1710311353-001
Test Location	Intertek Testing Services NA, Inc., 3933 US Route 11, Cortland, NY 13045, USA		
Test Procedure	Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
Due to the testing performed and reported above on the following tests were performed for the addition of the 0799 Series models and the standard update to Photovoltaic Combiners [CSA C22.2#290:2015 Ed.1]:			
Test Description	UL 1741 Clause	CSA C22.2#290 Clause	UL 50E CSA C22.2#94.2 Clause
Grounding Impedance	48	4.17	--
Static Load	59	--	--
Temperature	--	6.1	--
Dielectric Strength	--	6.2	--
Rain	--	--	8.3
External Icing	--	--	8.5
Test Description	CSA C22.2#0.4 Clause	--	--
Impedance	5.1	--	--

8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Matthew Wood	Reviewed by:	Russell Ransom / Radhe Patel
Title:	Associate Engineer	Title:	Senior Project Engineer / Senior Staff Engineer
Signature:		Signature:	

9.0 Correlation Page For Multiple Listings

The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.

BASIC LISTEE	RSTC Enterprises, Inc.
Address	2214 Heimstead Road Eau Claire, WI 54703
Country	USA
Product	Electrical Combiner Box

MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	

ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	

ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	

ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

For Canadian standards, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.

The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0

Note to Intertek Follow Up Inspector: The Component Evaluation Center, CEC, will notify you in writing when these components must be selected and sent to the CEC for re-evaluation

Ship the samples to:

Intertek Testing Services NA Inc.
ETL Component Evaluation Center
45000 Helm Street, Suite 150
Plymouth Twp., MI 48170 USA
Attn: Component Evaluation Center

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests

None

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
16-Mar-2009	J. Gregory	2.0	--	Updated model similarity to describe both configurations of Soladeck 0786-41
3173730PRT	T. Dorta	4.0	--	Corrected error with page number/item number mismatch
		4.0	8	Added alternate component for negative terminal blocks
		4.0	9	Added bus bar for construction with alternate negative terminal block.
		11.0	--	Removed Dielectric Withstand test from applicable Production Tests.
1-Apr-2010	S. Coy	1.0	--	Added new standard reference (CSA C22.2 # 107.1)
G100065282PRT	T. Gambrell	2.0	--	Added two new models (0760-41AD and 0766-41AD), updated model similarity description and updated electrical ratings.
		4.0	10,11, 12,13, 14	Added description of new critical components
		6.0	9,10, 11	Updated references to Illustrations in section 7.0
		7.0	2	Replaced Illustration no. 2 with new Illustration that has French language and two new models (0760-41AD and 0766-41AD).
		7.0	3A	Added new illustration 3a for required UL 1741 and CSA C22.2 No. 107.1 markings
		7.0	4	Replaced installation manual with new one with the required French markings.
		7.0	5	Deleted this Illustration and included with ILL. 4
		8.0	--	Added Test Summary to support revisions under this project.
12-Aug-2010	J. Gonzalez	1.0	--	Administrative change updating standard UL 1741 from 1st Ed. To 2nd Ed. Issued 1/28/10 - Product listed is not affected.
3171411 SVN	T. Dorta			
31-Mar-2011	M. Sher	1.0	--	Administrative change of applicant and manufacturing address from 2219 Heimstead Road to 2214 Heimstead Road.
G100371451MIN	V. Dreytser	9.0	--	Administrative change of applicant and manufacturing address from 2219 Heimstead Road to 2214 Heimstead Road.
27-Mar-2012	D. Koll	2.0	--	Added line "Product has been tested and found compliant for installation at 14 degrees and above." to clarify that product is okay to use at 14 degrees and above.
G100683439PRT	T. Gambrell	8.0	--	Added Test Summary to support revisions under this project.
25-Nov-2014	M. Rana	4.0	2	Added various Fuse Holder, having model number LPSM CH, CHM, 6S,30AX-c, FRZ USM-1, CHPV, CHM1DI respectively
G101901779CRT	S. Pasternack	4.0	6	Added various Neative terminal block, having model number PDBFS220 and PDB220-1 respectively
		4.0	7	Added Various Negative terminal block, having model number M6/8 600V-50A and M10/10 model number 600V-65A
15-Jan-2015	M. Rana	4.0	3	Typo error removed for Type/Model from 'B110C' to correct model number 'C110'

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
G101974219CRT	S. Pasternack	4.0	5	Alternate Grounding terminal added with model numbr 'EM 4250-5-SSO'
		4.0	6	Manufacturer updated from 'Bussman' to 'Various' and Model/type also updated from 'PDB220-1 to 'Various' for component description of 2/0-8, Wire range secondary: 4-14, Rated, 600V, 175 A/pole Construction similar to Bussmann example above
		4.0	11	Type /Model number updated from S200U-Z to S202U-Z20 for 20A Breaker. Alternate component added from the same manufacturer with model number S200U-Z15 which is 15A Breaker.
22-Jul-2016	M. Wood	1.0	--	Updated CSA C22.2 No. 107.1 standard to match GSSQ.
G102633181CRT	S. Pasternack	3.0	4	Added grounding bar photo.
		4.0	5	Added alternate ground terminal model number 2S2/0 manufactured by IHI Connectors.
		4.0	15	Added grounding bar model number 4-14 (4-9, 1, 9) RS manufactured by Brumall Mfg. Corp.
		6.0	6	Removed table.
		6.0	8	Added "The following markings in French are required: See Cautionary Markings."
		6.0	9	Illustration 4 reference was 3a (typographical error).
		7.0	10	Added illustration (table removed from Section 6.0 Item 6).
14-Nov-2016	D. Robb	1.0	--	Technical change to update standard UL 1741 From: UL 1741: Standard for Safety for Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources, Second Edition, Issued 01/28/10. To: Inverters, Converters, Controllers And Interconnection System Equipment For Use With Distributed Energy Resources [UL 1741:2010 Ed.2 +R:07Sep2016]. Product listed is not affected.
G102803874SVN	D. Tesfaye	1.0	--	Reformatted standard title to match GSSQ for standard IDs: CSA C22.2#107.1. From: CSA C22.2#107.1: General Use Power Supplies, Third Edition, Issued: 2001/09/01 (R2011). To: CSA C22.2#107.1 Issued: 2001/09/01 Ed: 3 (R2011) General Use Power Supplies. No version changes made.
		7.0	--	Added Illustration 3a - French Warning in Instruction Manual.
		8.0	--	Added new test block.
		8.1	--	Added new signatures.

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
7-May-2018	M. Wood <i>MW</i>	1.0	--	Updated CSA standard from "CSA C22.2#107.1 Issued: 2001/09/01 Ed: 3 (R2011) General Use Power Supplies" to "Photovoltaic Combiners [CSA C22.2#290:2015 Ed.1]".
G103260700CRT	<i>RJR</i> R. Ransom R. Patel <i>Randha. Patel</i>	2.0	--	Updated description from "The products covered by this report are a Combiner box (DC and AC power applications) for use with a up to four photovoltaic array inputs, and an output of a single DC/AC source. Product has been tested and found compliant for installation at 14 degrees and above." to "The products covered by this report are a Combiner box (DC and AC power applications) for use with a up to four photovoltaic array inputs, and an output of a single DC/AC source. Product has been tested and found compliant for installation at 14 degrees and above. The product is intended for installation on composite, metal, or rubber roofing."
		2.0	--	Added Models "0799- followed by 2, 5, D, E or EP; followed by B, G or S."
		2.0	--	Updated Model Similarity from "Similar except for the use of the negative terminal block in unit. The 0783-41 model has its negative terminal block mounted to the enclosure in a stand-alone fashion with up to four inputs and one lug output, while the 0786-41 model has its negative terminals mounted to the DIN rail. Models 0760-41AD and 0766-41AD are identical except that Model 0766-41AD has a 6" deep base for installation on tile and slate roofs. Models 0760-41AD and 0766-41AD are similar to Models 0783-41 and 0786-41 except for component configuration (see section 4.0 for details)" to "Models 0783-41 and 0786-41 are similar except for the use of the negative terminal block in unit. The 0783-41 model has its negative terminal block mounted to the enclosure in a stand-alone fashion with up to four inputs and one lug output, while the 0786-41 model has its negative terminals mounted to the DIN rail. Models 0760-41AD and 0766-41AD are identical except that Model 0766-41AD has a 6" deep base for installation on tile and slate roofs. Models 0760-41AD and 0766-41AD are similar to Models 0783-41 and 0786-41 except for component configuration (see section 4.0 for details). All models in the 0799 series are similar in design and construction except for the internal components. The configuration of the models are as follows: "2" is for a two position ground lug, "5" is for a five position ground lug, "D" is for a one position ground lug, "E" is for Enphase bulkheads and a supplementary protection device, "EP" is for Enphase bulkheads, "B" is for a black powder coated enclosure, "G" is for a grey powder coated enclosure, and "S" is for stainless steel enclosure."
		2.0	--	Updated Ratings from "Models 0783-41 and 0786-41: 600 VDC, 120 A total. Models 0760-41AD and 0766-41AD: 600 VDC, 120 A total / 240 VAC, 60 A" to "Models 0783-41, 0786-41: 600VDC, 120A. Models 0760-41AD, 0766-41AD: 600VDC, 120A / 240VAC, 60A. Models 0799: 1000VDC, 180A / 480VAC, 60A".

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
		3.0	5	Added photo of Model 0799.
		4.0	1	Added enclosure stainless steel manufactured by RSTC Enterprises.
		4.0	2	Added fuse holder LPSC manufactured by Littelfuse.
		4.0	5	Added grounding terminal LL414 manufactured by Thomas & Betts Corp.
		4.0	7	Corrected technical data and securement means for negative terminal block ER10 manufactured by IMO Precision Controls from "16-6AWG Cu wire range, Rated 600V, 65A. Used in alternate construction with bus bar attached for single lug output." to "16-6AWG Cu wire range, Rated 600V, 65A. Used in construction with bus bar attached for single lug output."
		4.0	7	Added negative terminal block ER16PV manufactured by IMO Precision Controls.
		4.0	7	Added negative terminal block ER35PV manufactured by
		4.0	7	Added negative terminal block ZS6 manufactured by ABB.
		4.0	7	Added negative terminal block ZS10 manufactured by ABB.
		4.0	7	Added negative terminal block ZS16 manufactured by ABB.
		4.0	7	Added negative terminal block ZS50 manufactured by ABB.
		4.0	10	Added single pole distribution block DBL 80 manufactured by ABB France.
		4.0	10	Added single pole distribution block DBL 125 manufactured by ABB France.
		4.0	11	Added ac circuit breaker SU202M-C20 manufactured by ABB Germany.
		4.0	11	Added ac circuit breaker SU202M-Z15 manufactured by ABB Germany.
		4.0	16	Added bulkhead 830-00320 manufactured by Enphase Energy Inc.
		4.0	17	Added fuse PVM-15 manufactured by Cooper Bussmann LLC.
		4.0	17	Added fuse KLKD015 manufactured by Littelfuse Inc.
		4.0	17	Added fuse SPF020 manufactured by Littelfuse Inc.
		4.0	18	Added terminal block jumper bar JB8-2 manufactured by ABB France.
		4.0	18	Added terminal block jumper bar JB8-3 manufactured by ABB France.
		4.0	18	Added terminal block jumper bar JB8-4 manufactured by ABB France.
		4.0	18	Added terminal block jumper bar JB8-5 manufactured by ABB France.
		4.0	18	Added terminal block jumper bar JB8-10 manufactured by ABB France.
		4.0	19	Added gland fitting LTCG 3/8 manufactured by Heyco Products Inc.
		4.0	19	Added gland fitting LTCG 1/2 manufactured by Heyco Products Inc.
		4.0	19	Added gland fitting LTCG LL 1/2 manufactured by Heyco Products Inc.
		4.0	20	Added busbar PS2/6/16BP manufactured by ABB Stotz-Kontakt GmbH.

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
		4.0	20	Added busbar PS2/56/25BP-C manufactured by ABB Stotz-Kontakt GmbH.
		4.0	21	Added busbar terminal block SZ-ESK BP manufactured by ABB Stotz-Kontakt GmbH.
		8.0	--	Added new test summary for this project.
		8.1	--	Re-signed. Replaced D. Robb/D. Tesfaye.