

# TRYSSTAR Cable & Power Solutions

## Feel the Power of TRYSSTAR.



TRYSSTAR

### TRYSSTAR Portable Power Cable

*Phase colors and free custom print*

#### **DESCRIPTION:**

- 2000V, 100A-400A rated to NEC table 400.5 (B)
- All Portable Power Cable sold is UL & C-UL or CSA Listed
- MSHA Approved Product
- Highly flexible, up to 2109 strands of 30 gauge wire
- Dual layer jacket with inner safety liner of opposite color
- Available in any color
- Free custom printing every foot of the cable
- All cables are factory tested



Generator Docking Stations



Distribution equipment



Flexible quality cable



**\*Immediate Delivery and 24-Hour Customer Service Available\***

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2917 Industrial Drive  
Faribault, Minnesota 55021

www.trystar.com  
phone: 507-333-3990  
fax : 507-334-1683

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### TRYSSTAR Portable Power Cable

*Pig tails, male or female any length*

#### DESCRIPTION:

- 2000V, 100A-400A rated to NEC table 400.5 (B)
- All Portable Power Cable sold is UL & C-UL or CSA Listed
- MSHA Approved Product
- Highly flexible, up to 2109 strands of 30 gauge wire
- Dual layer jacket with inner safety liner of contrasting color
- Available in any color
- Cam-lock to bare end, pin lugs, or compression lugs available
- Free custom printing every foot of the cable
- All cables are factory tested



Attached to ATS



Pig tail with pin lug



Generators and load-banks



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# TRYSTAR Cable & Power Solutions

## Feel the Power of TRYSTAR.



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### TRYSTAR Portable Power Cable *COLORS*

#### DESCRIPTION:

- No upcharge for custom colors
- Phase color your customers order to prevent miswiring
- Print your name and information every foot
- Dual layer jacket with inner safety liner of contrasting color
- All cables are factory tested



Stainless window panel



Cable ramp



Bulk cable



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# TRYSSTAR Cable & Power Solutions

## Feel the Power of TRYSSTAR.



# TRYSSTAR

## TRYSSTAR Generator Docking Station

*Up to 4000A*

**Part #: GDS-AAVM**

### DESCRIPTION:

- Available for 200A to 4000A service (AA = 02-40)
- Voltage options:

V = 1	120/240 (2H + N + G)	4	480V (3H + G)
2	120/240 (3H + N + G)	5	480/277V (3H + N + G)
3	208/120V (3H + N + G)	6	600V (3H + N + G)
- Multiple mounting options: M = W - Wall, P - Pad, F - Flush
- Powder coated aluminum or stainless steel construction
- Gland plates allow for any style inlet or receptacle
- Lockable rake system eliminates cable theft, once locked you cannot disconnect the cable
- Cam style inputs and/or outputs
- UL and C-UL 50 Listed enclosure
- Provides safe and easy cam connections to transfer switches



Optional leg kit



1200A output panel



400A docking station



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# TRYSAR Cable & Power Solutions

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## TRYSAR Posi-Lok Generator Docking Station

**Part #: GDSPOSI**

### DESCRIPTION:

- Stainless steel or powder coated aluminum
- Mounts to switches, buildings and generators
- Posi-Lok is designed for sequential hook up
- Lockable rake system eliminates cable theft, once locked you cannot disconnect the cable
- UL and C-UL 50 Listed enclosure
- Once locked you cannot disconnect the cable



Lockable



Posi-Lok cable



Posi-Loks installed



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## TRYSSTAR Rotary Generator Docking Station

*Up to 600A*

**Part #: GDR-AAVM**

### DESCRIPTION:

- Integrated rotary transfer switch (ON - OFF - ON)
- Available for 200A to 1200A service (AA = 02-12)
- Voltage options:

V = 1	120/240 (2H + N + G)	4	480V (3H + G)
2	120/240 (3H + N + G)	5	480/277V (3H + N + G)
3	208/120V (3H + N + G)	6	600V (3H + N + G)
- Multiple mounting options: M = W - Wall, P - Pad, F - Flush
- Powder coated aluminum or stainless steel construction
- Gland plates allow for any style inlet or receptacle
- Lockable rake system eliminates cable theft, once locked you cannot disconnect the cable
- Cam style inputs and/or outputs
- UL and C-UL 50 Listed enclosure



Portable rotary



Utility - Off - Generator



Pad lockable



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# TRYSTAR Cable & Power Solutions

## Feel the Power of TRYSTAR.



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## TRYSTAR Transfer Switch with Generator Docking Station

**Part #:TSTSDS**

### DESCRIPTION:

- Optional stainless steel or powder coated aluminum
- Double throw, manual (non-automatic) or automatic
- Add gland plates for any inlet or receptacle
- Non service and service entrance rated
- Square D, ASCO, ABB, and Cutler-Hammer available
- Available with transition panel or direct cam mounted inlets
- UL and C-UL 50 Listed enclosure



2000A ATS shown with 2 generator docking stations



Wiring view



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# TRYSAR Cable & Power Solutions

## Feel the Power of TRYSAR.



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## TRYSAR Dual and Single Kirk Key *Generator Docking Stations*

**Part #: GDSKK**

### DESCRIPTION:

- Single or dual Kirk Key systems
- Designed so that the standby power breaker cannot be energized unless the utility breaker is locked in the off position.
- Up to 4000A per breaker
- Phase rotation sensors
- Full CAD drawing capability
- In place of an automatic transfer-switch
- UL and C-UL 50 Listed enclosure



Closed view



Back view



Single Kirk Key



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# TRYSSTAR Cable & Power Solutions

## Feel the Power of TRYSSTAR.



**TRYSSTAR**

### TRYSSTAR Dual and Single Kirk Key *Load Bank Docking Stations*

**Part #: GDSKKLB**

#### DESCRIPTION:

- Dual Kirk Key allows for Trystar's load bank docking station
- Breaker A is standby Breaker B is load bank docking station
- For use with permanent back up generators and for when back up becomes primary it gives you the ability to roll in a stand by.
- Designed so that the standby power breaker cannot be energized unless the utility breaker is locked in the off position.
- Up to 4000A per breaker for load bank docking station
- Phase rotation sensors
- Full CAD drawing capability
- Works with an automatic transfer-switch
- UL and C-UL 50 Listed enclosure



Cable ramps



Phase colored cable



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# TRYPSTAR Cable & Power Solutions

## Feel the Power of TRYPSTAR.



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### TRYPSTAR Hard-Wire Docking Station *Generator Roll-Up Box*

**Part #: GRUB**

#### DESCRIPTION:

- Hard wire application through lugs
- Insulated
- Includes mechanical lug hook ups
- Trap access door
- UL and C-UL 50 Listed enclosure



Pad lockable



Cable ramps



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**TRYSTAR Cable & Power Solutions**  
**Feel the Power of TRYSTAR.**



**TRYSTAR**

**TRYSTAR Generator Docking Stations Field Photographs**



Inside wiring of an ATS

Docking station



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# TRYSSTAR Cable & Power Solutions

## Feel the Power of TRYSSTAR.



**TRYSSTAR**

### TRYSSTAR Inlet Generator Connection Panel

*30A to 400A*

#### **DESCRIPTION:**

- Stainless steel or powder coated aluminum
- Quick and simple hookups, cam-lock, twist lock, Posi-Lok or pin/sleeve
- Mounts to switches, buildings and/or generators
- Complete with 30" tails sized to your requirement
- Exterior hook up or enclosed available
- Lockable and tamper proof available
- UL and C-UL 50 Listed enclosure



Mounted to Transfer switch



Single phase 400A



Shown with lockable cover



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### TRYSTAR Power

*Trystar Steel Storage Vault*

**Part #: TSSV**

#### DESCRIPTION:

- Lockable
- Capable of holding up to 3000 lbs.
- Nearly impenetrable
- Custom colors available



Plastic collapsible bins



Plastic non collapsible bins



Plastic collapsible bins



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## TRYSSTAR™ POWER GENERATOR CABLE (UL)

### FEATURES

- ◆ Available colors: Black, blue, red, green, white, yellow, orange, brown or custom
- ◆ Extra Flexible Class K (ASTM-B) Bare annealed copper stranding
- ◆ - 45°C to 105°C, 2000 Volt Rating, flame retardant
- ◆ Resistant to oil, water, acid, gas, ozone, cuts, tears and abrasion
- ◆ (UL) 2000 volt rating, C(UL) 600 volts continuous use
- ◆ Manufactured to (UL) & C(UL) standard 1581
- ◆ Surpasses NEC 400 requirements and may be used in any application where Type W, G or G-GC cable is used.



### APPLICATIONS

Designed for use with industrial equipment, including portable generators, chillers, air conditioning, motor and welding leads, submersible wells, grounding, heavy tools, power extensions, marine dockside, mining and oil drilling applications, where long term, quality performance at all operating temperatures is desired.

### CONSTRUCTION

#### Conductor

- ◆ Bare, annealed electrolytic copper
- ◆ 30 AWG Class K rope lay stranding

#### DUAL INSULATED JACKETING TECHNOLOGY

##### Inner Jacket- Added for Your Safety

A separator of high contrast color is applied between the conductor and outer sheath for your added safety. This provides: Increased insulation, added flexibility, and allows you to easily identify damage or wear.

##### Outer Jacket

TYPE PPE (FT5) Provides: oil, water, acid, gas, ozone, resistance, flame retardant, durability and extreme flexibility at all operating temperatures.



Indented into the outer Jacket: (UL) TYPE PPE 2000V 90°C 75°C WET E204219 C(UL) PPC/TPE FT-5 600V 90°C OIL RESISTANT

### AVAILABLE SIZES, SPECIFICATIONS & AMPACITY CORRECTION FACTORS

SIZE	Stranding	Strand Nominal OD	Finished Nominal OD	Weight LBS./ M FT	Ampacity*	TEMPERATURE CORRECTION FACTORS **				
						Ambiant Temp °C	FACTOR	Ambiant Temp °F	Number of Conductors	Temperature Adjustment
8	168 x 30	0.150	0.485	162	80	21-25	1.04	70-77	4-6	80%
6	266 x 30	0.192	0.525	197	105	26-30	1.00	78-86	7-9	70%
4	420 x 30	0.252	0.582	204	125	31-35	0.96	87-95	10-20	50%
2	665 x 30	0.320	0.650	315	190	36-40	0.91	96-104	21-30	45%
1	833 x 30	0.354	0.725	376	220	41-45	0.87	105-113	41-40	40%
1/0	1064 x 30	0.397	0.775	480	260	46-50	0.82	114-122	41+	35%
2/0	1330 x 30	0.450	0.820	603	300	51-55	0.76	123-131	<b>D RATING FOR CONDUIT OR TRAY APPLICATION</b>	
3/0	1691 x 30	0.510	0.880	716	350	56-60	0.71	132-140		
4/0	2109 x 30	0.580	0.965	895	405	61-70	0.58	141-158	<b>28%</b>	
						Adjustment factor for more than three current carrying conductors				
						* For ambient temperatures other than 30 C (86 F) multiply the allowable ampacities stated above by the appropriate conversion factor.				
** Indented into sheath: (UL)										
TYPE PPE 900C DRY 750C WET 2000V E204219 AWG 4/0 C(UL) PPC/TPE FT5 900C 600 v										
***Values Listed are for single conductors, where the individual conductor is not installed in raceways or physical contact with each other except in the lengths not exceeding 24.0 inches.										

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### INDUSTRIAL GRADE TYPE PPC - PORTABLE POWER CABLE

SIZE	Stranding	Strand OD	Finished OD	Weight LBS./M FT	Ampacity**	Ambiant Temp °C	FACTOR	Ambiant Temp °F	Number of Conductors	Temperature Adjustment
<b>TEMPERATURE CORRECTION FACTORS *</b>										
8	168 x 30	0.150	0.485	162	80	21-25	1.04	70-77	4-6	80%
6	266 x 30	0.192	0.525	197	105	26-30	1.00	78-86	7-9	70%
4	420 x 30	0.252	0.582	204	125	31-35	0.96	87-95	10-20	50%
2	665 x 30	0.320	0.650	315	190	36-40	0.91	96-104	21-30	45%
1	833 x 30	0.354	0.725	376	220	41-45	0.87	105-113	41-40	40%
1/0	1064 x 30	0.397	0.775	480	260	46-50	0.82	114-122	41+	35%
2/0	1330 x 30	0.450	0.820	603	300	51-55	0.76	123-131		
3/0	1691 x 30	0.510	0.880	716	350	56-60	0.71	132-140		
4/0	2109 x 30	0.580	0.965	895	405	61-70	0.58	141-158		
						71-80	0.41	159-176		



+ Adjustment factor for more than three current carrying conductors  
 \* For ambient temperatures other than 30 C (86 F) multiply the allowable ampacities stated above by the appropriate conversion factor.

\*\* Values Listed are for single conductors, where the individual conductor is not installed in raceways or physical contact with each other except in the lengths not exceeding 24.0 inches.

Indented into sheath: (UL) TYPE PPE 900C DRY 750C WET 2000V E204219 AWG 4/0 C(UL) PPC/TPE FT5 900C 600 v

### INDUSTRIAL GRADE TYPE W - PORTABLE POWER CABLE

SIZE	Stranding	Insulation Thickness	Finished OD	Weight LBS./M FT	Ampacity*	SIZE	Stranding	Insulation Thickness	Finished OD	Weight LBS./M FT	Ampacity*
<b>4-Conductor</b>						<b>5-Conductor</b>					
8	49x.0184	0.060	0.945	573	52	8	49x.0184	0.060	1.020	647	52
6	65x.0201	0.060	1.060	781	70	6	65x.0201	0.060	1.170	924	70
4	103x.0201	0.060	1.210	1061	91	4	103x.0201	0.060	1.360	1323	91
2	133x.0223	0.060	1.435	1540	122	2	133x.0223	0.060	1.550	1884	122
1	210x.0201	0.080	1.525	1903	142						
1/0	259x.0202	0.080	1.700	2288	164	1/0	259x.0202	0.080	1.850	2945	164
2/0	259x.0227	0.080	1.830	2828	190	2/0	259x.0227	0.080	1.910	3525	190
3/0	420x.0201	0.080	1.960	3308	219	3/0	420x.0201	0.080	2.240	4243	219
4/0	516x.0201	0.080	2.215	3919	253	4/0	516x.0201	0.080	2.350	4832	253
250	608x.0201	0.095	2.520	5353	282						
350	855x.0201	0.095	2.820	6881	346						

### INDUSTRIAL GRADE TYPE G-GC (ROUND) -Insulated Grounds

POWER CONDUCTORS			GROUNDING CONDUCTORS			GRD. CHECK		Finished Nominal OD	Weight LBS./M FT	Ampacity*
SIZE	Stranding	Insulation Thickness	NO.	Size	Strand	Size	Strand			
<b>3-Conductor Type G-GC (Insulated grounds)</b>										
8	49x.0184	0.060	2	10	19	10	104	0.945	637	65
6	65x.0201	0.060	2	10	19	10	104	1.000	744	87
4	103x.0201	0.060	2	8	49	8	65	1.115	1019	114
2	133x.0223	0.060	2	7	52	8	65	1.300	1436	152
1	210x.0201	0.080	2	6	133	8	65	1.490	1816	177
1/0	259x.0202	0.080	2	5	133	8	65	1.625	2184	205
2/0	259x.0227	0.080	2	4	133	8	65	1.740	2653	237
3/0**	420x.0201	0.080	2	3	133	8	65	1.875	3166	274
4/0**	516x.0201	0.080	2	2	168	8	65	1.990	3778	316
250**	608x.0201	0.095	2	2	168	8	65	2.285	4744	352
350**	855x.0201	0.095	2	1/0	264	8	65	2.615	6205	433
500**	1235x.0201	0.095	2	2/0	324	8	65	2.960	8492	536

\*\*Not C(UL) Listed

### INDUSTRIAL GRADE TYPE G (ROUND) -Insulated Grounds

POWER CONDUCTORS			GROUNDING CONDUCTORS			Finished OD	Weight LBS./M FT	Ampacity*
SIZE	Stranding	Insulation Thickness	NO.	Size	Strand			
<b>4-Conductor* Type G (Insulated grounds)</b>								
8	49x.0184	0.060	4	12	19	1.025	717	65
6	65x.0201	0.060	4	12	19	1.080	869	87
4	103x.0201	0.060	4	10	19	1.180	1193	114
2	133x.0223	0.060	4	9	49	1.440	1747	152
1	210x.0201	0.080	4	8	49	1.620	2197	177
1/0	259x.0202	0.080	4	7	52	1.730	2606	205
2/0	259x.0227	0.080	4	6	133	1.900	3259	237
3/0**	420x.0201	0.080	4	5	133	2.040	3856	274
4/0**	516x.0201	0.080	4	4	133	2.180	4691	316

\*If all four conductors carry current, ampacity is 80% of stated values

\*\*Not C(UL) Listed

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