

# A solution allows feeding critical AC loads directly from the Mains, If Inverter System Maintenance is required!



## The Challenge

Provide a rotary switch style bypass design without the inherent risks of the traditional 3-breaker design with up to 700A switching capacity.

## The Solution

CE+T has partnered with an American owned and manufactured switch company to provide the best solution compliant with American standards and safety ordinances.

## Why CE+T Power?

CE+T is the AC critical power solutions provider for the Telecom, Industrial Oil & Gas, and Data Center markets. CE+T is an industry leader in the power conversion technology. TSI technology has revolutionized the inverter market with its new range of modular, scalable products to support telecom (48V) or industrial (110V, 220V) applications.

## The System

Bundled with a CE+T (up to 225 kVA) inverter, a single solution for your critical AC loads both now and as your power demands change in the future.

### Features

- · Free standing or wall mount bypass
- 3-Phase Rotary Make-Before-Break Load Switch
- · Electromechanical Interlock Prevents movement of the load switch unless the inverter is in sync with utility
- · Maintenance Test Position Allows utility power to load even while performing energized testing on equipment
- · Internal branch protection breakers for each Inverter cabinet input and output
- Handshaking compatibility with CE+T Inverters

#### **Operating Mode – Normal**

- Utility AC is provided to the inverter input.
- Clean, stable AC is provided to the critical load.

Illustrations are non-binding and may include customized fittings.

#### **Operating Mode – Test**

- Utility AC is provided to the inverter input and to the critical load.
- The inverter output is isolated from the load.

#### **Operating Mode – Bypass**

- Utility AC is provided to the critical load.
- The inverter input & output are isolated from an AC source.

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# **CE+T EMBS**

	30 kVA 1 or 2 PH	45 kVA 3 PH	60 kVA 1 or 2 PH	90 kVA 3 PH	180 kVA 3 PH	270 kVA 3 PH
General	T OF 2 PH	<u> </u>	TOIZFI	3 FI	3 - 11	3 - 11
Part Number	T30960W030	T30950W045	T30960W060	T30950W090	T30950S150	T30950S225
Compatible CE+T Inverter Models	MPC: 1-6 / 1-12 / 2-12 RBS: 1-10 / 2-20 HD/BPC-2-25 MIPS-2-20 T1PS-2-20	MPC-3-18 RBS-3-30 HD/BPC-3-37 MIPS-3-30 T1PS-3-30	HD/BPC: 1-25 / 2-50 MIPS: 1-20 / 1-25 / 2-40 / 2-50 T1PS: 1-20 / 1-25 / 2-40 / 2-50	HD/BPC-3-75 MIPS: 3-60 / 3-75 T1PS: 3-60 / 3-75	MIPS-3-150 T1PS-3-150	MIPS-3-225 T1PS-3-225
Safety			UL1008			
RoHS	Compliant					
Altitude above sea without de-rating	<1500 m					
De-rating slope above 1500 m	0.8% / 100 m					
Ambient Temperature	-20°C to 40°C					
Storage Temperature	-40°C to 70°C					
Humidity	95% (non-condensing)					
Power						
AC Output Power – To Load	22	15			100	077
Maximum Output Power (kVA)	30	45	60	90	180	270
Output Power per Phase (kVA)	15	15	30	30	60	90
Nominal Voltage (VAC L-N)			120			
Phases (Poles)	1 or 2	3	1 or 2	3	3	3
Frequency (Hz)	60					
Output Current per Phase (A)	105	105	210	210	420	630
Minimum Terminal Wire Size (AWG)*	6	6	6	6	4	4
Maximum Terminal Wire Size (AWG)*	1/0	1/0	350 MCM	2x500 MCM	2x500 MCM	2x500 MCN
Switch Rating per Phase (A)	125	125	255	255	500	850
Short Circuit Rating (kA)			5			
AC Input Power – From AC Mains						
Nominal Voltage (VAC L-N)			120			
Phases (Poles)	1 or 2	3	1 or 2	3	3	3
Voltage Range (AC L-N)	83 - 140 V					
Minimum Terminal Wire Size (AWG)*	6	6	6	6	4	4
Maximum Terminal Wire Size (AWG)*	1/0	1/0	350 MCM	2x500 MCM	2x500 MCM	2x500 MCN
Frequency (Hz)			47 - 63			
AC Power – Connections to Inverter		Refe	r to CE+T Installation	& User manual		
Transfer Performance						
Max Voltage Interruption	0 s					
Total Transient Voltage Duration	0 s					
Signaling & Supervision						
Status Indication			Machanical Dai	ntor		
Request to Transfer	Mechanical Pointer Black Push Button					
•						
Ready to Transfer	White LED White LED Push Button					
Lamp Test / Solenoid Override			White LED Push E	Button		
Cabinet						
Width x Depth x Height (in)	20 x 16 x 24	20 x 16 x 24	30 x 16 x 36	30 x 16 x 42	36 x 24 x 84	36 x 24 x 8
Mounting Type	Rack / Wall	Rack / Wall	Wall	Wall	Freestanding	Freestandin
Material (casing)			Coated Steel - ANS	61 Grey		
Branch Protection						
Input CB (Provided by Others)	125 A	125 A	250 A	250 A	500 A	750 A
Output CB (Provided by Others)	125 A	125 A	250 A	250 A	500 A	750 A
Coordinated trip set by Project Engineer						
Accessories						
	for 1st generation bypass					

\* Refer to NEC and local code for proper cable sizing.

EMBS - Datasheet - v1.0 Specifications can change without notice. New data will be updated on our website: www.cet-power.com. The present equipment is protected by several international patents, trademarks and copyrights.

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