



SEAMLESS TRANSFER
<5ms TRANSFER TIME IN SYNCHRONIZED SOURCES ALLOWS NO BLINK TRANSFER



EASY MAINTENANCE AND REPAIR
ALL FRONT ACCESS OR SWAPABLE POWER MODULE FOR EASY REPAIR



BACKUP POWER SUPPLY
REDUNDANT POWER SUPPLIES PREVENTS SINGLE POINT OF FAILURE



OVERLOAD RESISTANCE
HIGH OVERLOAD RATINGS ENSURES INDUSTRIAL INRUSHES CAUSE NO ISSUES

ENCLOVE Energy: Industrial Static Transfer Switches

The ENTS Series Static Transfer Switch provides instantaneous, seamless switching between two independent power sources to ensure zero-downtime for mission-critical loads.

Its advanced solid-state architecture performs high-speed transfers without any interruption to the output voltage, protecting sensitive equipment from source failures or instabilities.

Key Features

- **Ruggedized Design:** Industrial-grade enclosures and components specifically selected for long-term service in harsh fields.
- **Precision Control:** Advanced power electronics provide a smooth, fast transfer to ensure no interruption. Adjustable phase angle setting.
- **Smart Integration:** Modern connectivity options enable remote monitoring and control, allowing for seamless integration into existing SCADA or automated facility management systems.
- **Enhanced Visibility:** Features a clear mimic diagram for real-time process visualization, alongside digital instrumentation for accurate input/output tracking.



MODEL	ENTS1016 ENTS2016	ENTS1032 ENTS2032	ENTS1050 ENTS2050	ENTS1063 ENTS2063	ENTS1100 ENTS2100	ENTS1150 ENTS2150
CURRENT	16A	32A	50A	63A	100A	150A
POLES	1 POLE (ENTS1XXX) 2 POLES (ENTS2XXX)					
ELECTRICAL CHARACTERISTICS						
Voltage	110/127/208/220/230/240/265 3W (1PH+N+PE)					
Voltage Range	± 20% (Transfer when out of range)					
Frequency	50/60Hz					
Frequency Range	45-65Hz (Transfer when out of range, adjustable)					
Efficiency	94%	96%	97%	98%	98%	99%
Transfer Type	Break Before Make					
Transfer Option	Automatic / Manual / Remote					
Transfer Time	<5ms (Sync) & ~10ms (Unsync) @ 50Hz <4ms (Sync) & ~10ms (Unsync) @ 60Hz					
Switching Topology	1 Pole (w/o neutral breaking) or 2 Pole (w Neutral Breaking)					
Crest Factor	3:1					
Overload	Continuous @ 100-110% Load 10 mins @ 100-125% Load 1 min @ 125%-150% Load 10 sec @ 150-200% Load 250msec @ >200% Load					
Protection	Overload, Short curcuit, Over Temperature, Backfeed, SCR Fault Alarm, Unsync protection, Bypass protection (Interlock)					
Communication	RS232, Dry Contact (Standard) - RS485, TCP/IP (Optional), SNMP (Optional)					
ENVIRONMENTAL						
Cooling	Natural Cooling (without Fans)					
Operation Temperature	0 to 50°C					
Storage Temperature	-10 to 70°C					
Relative Humidity	0 to 90% (Non-Condensing)					
Ingress Protection (IP)	IP20, IP21 Standard, up to IP65 (Optional)					
Standards	IEC62310-1: Static transfer systems (ENTS) -Part 1: General and safety requirements IEC62310-2: Static transfer systems (ENTS) -Part 2: Electromagnetic compatibility (EMC) requirements IEC62310-3: Static transfer systems (ENTS) -Part 3: Method for specifying performance and test requirements					
PHYSICAL PROPERTIES						
Net Weight (kg) (Standard Unit)	3kg	6kg	6kg	8kg	Advice to ENERG TECH	
Dimensions	19', 1U	19', 2U			500x450x1000	
Alternate Dimensions	-	-	-	-	19', 4U	Advise
Mounting	19' Rack Mount				Standalone	
Optional Mountings	Wall Mount, Chassis Mount					Advise

* Our company has the right to change the model, visual and technical specification information of the products without prior notice.



19', 4U Frame



19', 2U Frame



19', 1U Frame

MODEL	ENTS3063 ENTS4063		ENTS3160 ENTS4160	ENTS3250 ENTS4250	ENTS3400 ENTS4400	ENTS3600 ENTS4600	ENTS3800 ENTS4800
CURRENT	63A		160A	250A	400A	600A	800A
POLES	3 POLE (ENTS3XXX) 4 POLES (ENTS4XXX)						
ELECTRICAL CHARACTERISTICS							
Voltage	200/227/380/400/415/440/460/600VAC 5W (3PH + N + PE)						
Voltage Range	± 15% (Transfer when out of range)						
Frequency	50/60Hz						
Frequency Range	45-65Hz (Transfer when out of range, adjustable)						
Efficiency	98%	98%	99%				
Transfer Type	Break Before Make						
Transfer Option	Automatic / Manual / Remote						
Transfer Time	<5ms (Sync) & ~10ms (Unsync) @ 50Hz <4ms (Sync) & ~10ms (Unsync) @ 60Hz						
Switching Topology	3 Pole (w/o neutral breaking) or 4 Pole (w Neutral Breaking)						
Crest Factor	3:1						
Overload	Continuous @ 100-110% Load 10 mins @ 100-125% Load 1 min @ 125%-150% Load 10 sec @ 150-200% Load 250msec @ >200% Load						
Protection	Overload, Short curcuit, Over Temperature, Backfeed, SCR Fault Alarm, Unsync protection, Bypass protection (Interlock)						
Communication	RS232, Dry Contact (Standard) - RS485, TCP/IP (Optional), SNMP (Optional)						
ENVIRONMENTAL							
Cooling	Fan Forced, (Optional: Natural Cooling)						
Operation Temperature	0 to 50°C						
Storage Temperature	-10 to 70°C						
Relative Humidity	0 to 90% (Non-Condensing)						
Ingress Protection (IP)	IP20, IP21 Standard, up to IP65 (Optional)						
Standards	IEC62310-1: Static transfer systems (ENTS) - Part 1: General and safety requirements IEC62310-2: Static transfer systems (ENTS) - Part 2: Electromagnetic compatibility (EMC) requirements IEC62310-3: Static transfer systems (ENTS) - Part 3: Method for specifying performance and test requirements						
PHYSICAL PROPERTIES							
Net Weight (kg) (Standard Unit)	Advice to ENER-G TECH						
Dimensions	500x450x1000	600x600x1300	750x700x1600	800x800x2100	1000x800x2100		
Alternate Dimensions	19', 5U	19', 5U	-	-	-	-	
Mounting	Standalone						
Optional Mountings	Wall Mount, Chassis Mount			Advice to ENCLOVE Energy			

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Example, 3P 800A