

Innovation, Reliability | TSINE

PowerSelect Static Transfer Switches



PowerSelect, Gives The Power of Control!

The **PowerSelect** ATS helps the user to have source diversity in harshest environments for industrial, marine & maritime and IT fields and assures highest availability & versatility for mission-critical loads & systems in your infrastructure. the STS secures & optimizes the powerflow for both upstream and downstream paths.

The STS provides the power switching safely between two sources, automatically or manually by the user. When the output load is over the rated Ampers value, the unit gives audible & visual alarm.

The STS is multi core DSP controlled and the user can set the parameters via keypad or MODBUS, the user also define the source priority as per technician' s advice.

Product Snapshot

- * DSP Controlled, automatic or manual operation.
- * Selectable source priority.
- * Robust & reliable operation at challenging environments and loads.
- * Local & remote monitoring & management.
- * Superior connectivity standards, LCD display, user & service friendly LCD navigation and menus.

Fields of Use



General Characteristics

Converter Type & Technology	DSP Microprocessor Controlled, Thyristor Switching Technology, Continuous Duty, Robust, Fault-Tolerant
Standards	IEC62310-1, IEC62310-2, IEC62310-3, ISO9001
Standard Protection Features	Prevents sudden transfers of high currents, Short circuits mains low/ high voltage, output low/ high voltage, over temperature, Power limiting, Thyristor Fault Sensing (SCR Fault)
Operating Conditions	15~25 °C, <1000m Above Sea Level without downgrading, <45% to 55% RH for Best Performance
Cooling/ Isolation	Forced Air Cooling via Redundant Fans LED Indicators: S1 OK, S2 OK, S1 is ON, S2is ON, Output Power ON, Common Alarm, S1 Maintenance, S2 Maintenance, S1 & S2 Unsynchronized
Display & Parameters & Audible Alarms	Audible Alarms: Available
Maintenance Bypass	STANDARD
Material [Casing]/ Colour	Galvanized Steel, RAL7035, RAL7032 (Standard), Custom Colors Available
Cable Entry	TOP/FRONT, BOTTOM/ REAR As per Client' s Order

Efficiency

@100% Full Load	99%
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AC Dual Input

Rated Voltage	208/ 220/ 230/ 240VAC 1 Phase + N
Voltage Range	180~264VAC (L-N Voltages, Adjustable)
Input Phases	1 Phases, 2 Poles (Standard)
Rated Frequency	50/ 60 Hz
Frequency Range	±4 Hz (Adjustable)
Distribution Compability	IT, TT, TNS, TNC

Communication & Supervision

Standard:	TSINE Controller, total energy system management and single point of control and monitoring of various parameters. Designed to manage today's advanced control and automation requirements. Simplified on-site system commissioning and trouble-shooting with standard features: advanced user interface, user configurable alarms and data, custom data logging, performance monitoring, 2*16 character LCD Display for measurements, status & alarms, LED status indicators for STS operation, Audible alarms & LED test, Power supply status indicators, RS232, Dry contact relay for general fault alarms, LCD language selection, Easy calibration of measured parameters via front panel, ease of programming all operation parameters (password protected), Events log up to 200 incidents with date & time, Adjustable input & output parameters,
Monitoring & Management, UI	
Optional:	Touchscreen graphical LCD (HMI), RS485 Modbus Comm., TCP, SNMP IPv4 & IPv6, e-mail, GSM GPRS, Easy monitoring of input / output voltages & currents via analog measuring instruments, Programmable 4 pcs dry contact outputs, Remote monitoring, IPv4 & IPv6, e-mail,

Environment

Operating Temperature Range	(-5°C) - (+50°C) / 15°C - 25°C / -42°C ~ 70°C
Prespecified Operating T.	
Storage Temperature	
Altitude/ Relative Humidity	< 1000m above sea level, > 1000 m – 1% power downgrade for per 100 m, Max. Altitude < 4000m / < 95% (non-condensing)

Certifications

Safety	EN 62310-1, EN62310-2
Electromagnetic Compability [EMC]	EN 62040-2
Quality Management	ISO 9001, CE

Optional Features & Accessories

Custom Electrical Characteristics	Available
IP Classified Enclosure	Available from IP21 ~ IP 64

Physical

Dimensions & Weight	See Ratings & Dimensions Chart
Protection Degree	IP20 (Standard)

Capacities & Model Names

Model Name	S2032	S2050	S2063	S2080	S2100	S2120	S2200
Capacity (A)	32A	50	63	80	100	120	200
Dimensions & Weight	2U, 19" Rack, 500mm Depth			3U, 19" Rack, 500mm Depth			
	15	16	16	19	20	20	45

tsinepower

TSINE ELEKTRONİK SANAYİ VE TİCARET LTD. ŞTİ.

44A Gazneli Mahmut Ave, Kazım Karabekir Dist.,
Umraniye, İstanbul 34766 TURKEY

+90 216 365 7049
+90 216 313 2970

info@tsinepower.com
www.tsinepower.com

For More Information on The
PowerSelect, Please Visit
www.tsinepower.com