

ORION Touch Controller



Descriptions

ORION Touch is an enhanced version of the ORION controller with a new colourful and easy to use touch display. It is the solution for any any system, from small to very large, thanks to easy expandability with CAN bus communication and a range of front-end modules. Enhanced functions, such as efficiency mode and genset fuel saving, enable operating cost reductions. Battery management with capacity test and life time prediction and enhanced rectifier functions including redundancy supervision make it easy to monitor system availability and plan site visits in cost effective manner. Remote monitoring and alarming, and consequent cost savings, are ensured with potential-free relay contacts and modem or LAN/Ethernet, SMS, SNMP or Modbus. An integrated web server offers a user-friendly interface with a standard browser both for local and remote communication.

Main features

- Energy saving – leading edge efficiency
- Advanced energy saving functionality
- Space saving – leading edge power density
- Space saving – up to 24 kW per shelf in 2U height
- Silent operation – very low audible noise
- Low line current distortion – power factor correction

Applications

- LTE/4G/5G
- Fixed line
- Datacom

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Technical specifications

Model	ORION ID:E1
1. Input	
Mains voltage	18 - 60 V _{RMS}
Current	0.8ADC (Max.)
Protection / Switch	Internal fuse 2A / None

2. General	
Dimensions (W x H x D)	83.4 x 42.0 x 203.1mm (3.3 x 1.6 x 7.9 in)
Weight	0.6 kg (1.32 lb)
Cooling	Natural air flow
Operating temperature	-40 to +70 °C (-40 to +158 °F)
Relative humidity	95%, non-condensing (Max.)

3. Standards	
Safety	EN / IEC 60950, class I; UL 60950; CAN / CSA - C22.2
EMC (radiated)	EN 55022, class B
Environment	RoHS compliant

4. Function	
System	Site expansions using additional CAN based modules adding additional I/O's and measurements
	PLC functionality for customization and supervision and control of auxiliary devices
	AC measurement, mains failure/phase failure detection and alarming
	Advanced genset functions for fuel savings
	Configurable event and data log / statistics
	Remote and local SW and configuration update
Battery	Temperature compensated float charge, boost and equalize charge
	Charging current limitation
	Low voltage disconnection
	State of charge supervision and display
	Backup time supervision / Life time prediction
	Automatic capacity test
	Symmetry supervision for voltage and currents

	Block voltage supervision (optional)
	Lithium battery and combinations of Lithium and Lead Acid batteries
Rectifier	Individual rectifier information and control
	Sequential start-up / system soft start
	Efficiency mode with advanced rectifier cycling
	Redundancy and power capacity supervision

5. Feature	
Number of rectifiers	Up to 128 connected via CAN based bus
Analog/digital input	From 7 up to 232
Relay output	From 6 up to 190
Temperature	From 2 up to 98
String measurement	From 3 up to 256
Block measurement	From 4 to 372
Lithium batteries	Up to 144
Local monitoring	Colour display, Web browser via Ethernet or WLAN (optional)
Remote monitoring	Web browser, REST, SNMP, Syslog, MODBUS, customer specific protocols via Ethernet, RS232, RS485 or modem
Remote alarming	Dry contacts / SNMP traps / SMS; dial-out together with modems

6. User Interface	
Local user interface	Colour touch display
WEB server	Web UI with configurable access rights, login control and user profiles
UIM (optional)	5 configurable LEDs; LCD display; Keypad; Buzzer
Languages	English + 3 downloadable

7. Ordering Information	
ORION ID:E1	TPS1020028A

*All specifications are subject to change without prior notice.

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