

# ORION

## Controller



### Descriptions

ORION controller is the solution for 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

- Remote monitoring with modem or LAN
- Integrated, user friendly WEB server, display and keypad
- Integrated PLC (Programmable Logic Controller) functions to enhance flexibility, and monitoring and controlling site infrastructure
- Advanced battery management and testing methods
- Easy maintenance by pluggable architecture

### Applications

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

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### Technical specifications

<b>Model</b>	<b>ORION ID:B1</b>
<b>1. Input</b>	
Mains voltage	18 - 60 V <sub>RMS</sub>
Current	0.8ADC (Max.)
Protection / Switch	Internal fuse 2A / None

<b>2. General</b>	
Dimensions (W x H x D)	83.4 x 40.0 x 175.0mm (3.29 x 1.58 x 6.89 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.)

<b>3. Standards</b>	
Safety	EN / IEC 60950, class I; UL 60950; CAN / CSA - C22.2
EMC (radiated)	EN 55022, class B; ETSI EN 300386 compliant
Environment	RoHS compliant

<b>4. Function</b>		
System	PLC functionality for customization and supervision and control of auxiliary devices	
	AC measurement (internal / external)	
	Mains failure/phase failure detection and alarming	
	LVD and PLD functions	
	Advanced genset functions for fuel savings	
	Configurable event and data log	
	Battery	Temperature compensated float charge / Boost and equalize
		Charging current limitation (advanced)
		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)		
Rectifier	Individual rectifier information and control	

	Sequential start-up / system soft start
	Efficiency mode with advanced rectifier cycling
	Redundancy and power capacity supervision

<b>5. Feature</b>	
Rectifier interface	Digital, CAN-based, up to 128 rectifiers
Digital input	From 4 up to 227
Relay output	From 6 up to 99
Temperature	From 2 up to 98
Voltage, current	Up to 99
Display	1 integrated, up to 2 user interface modules
Local monitoring	LAN / WEB browser
Remote monitoring	LAN / modem, GSM, GPRS / WEB browser
Remote alarming	Dry contacts / SNMP
USB port	USB host for SW upgrade and backup management
Languages	English + 2 downloadable

<b>6. User Interface</b>	
Local user interface	5 configurable LEDs; LCD display; Keypad
UIM (optional)	5 configurable LEDs; LCD display; Keypad; Buzzer
WEB	Four different access levels; More than 200 dynamic WEB pages; SW and set-up updates locally and remotely
SNMP	Remote alarms using traps; Dial-out feature together with modems

<b>7. Ordering Information</b>	
ORION ID:B1	TPS1020025A

\*All specifications are subject to change without prior notice.

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