



ORION

Controller

Product Feature

- Fully backwards compatible with previous ORION versions
- Large and easy to read colour display with touch functionality for easy and convenient local operation
- Integrated WEB server – very easy to use and operate
- Remote monitoring via Gigabit Ethernet, modem or RS485
- Easy integration of 3rd party modules via RS485
- Easy maintenance by pluggable architecture and MicroSD card slot to enable automatic backup
- Integrated PLC (Programmable Logic Controller) functions to enhance flexibility, and monitoring and controlling site infrastructure
- Advanced battery management and testing methods

Specifications

Model ORION ID:E1

1. Input	
Mains voltage	18 - 60 V _{DC}
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)
3. Standards	
Safety	EN / IEC 60950, class I; UL 60950; CAN / CSA-C22.2
EMC	EN 55022, class B
Cooling	Natural air flow
Operating temperature	-40 to +70 °C (-40 to +158 °F)
Relative humidity	95%, non-condensing (Max.)
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
Battery	Remote and local SW and configuration update
	Temperature compensated float charge, boost and equalize charge
	Charging current limitation
	Low voltage disconnection
	State of charge supervision and display
Rectifier	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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