NRC50

Powerful and expandable digital controller module for management of digital and analogue DC power systems

KEY FEATURES

» Advanced microprocessor technology with CAN Bus system communications

» Five extension slots for expansion boards

» Individual control of up to 120* digital rectifiers or 64* analogue rectifiers

» High visibility, 4-line alphanumeric display or optional graphical display

» Measurement of network mains voltage, frequency and current* (single, or three phase)

» Multiple branch, battery connection test

» Comprehensive battery management capabilities for up to 6 branches, with battery voltage, current and temperature measurement, event history log and battery type selection*

» Mapped Float Temperature Compensation curves for optimum battery charging

» Float and equalize battery charge modes, with charge current limitation and programmable switching conditions

» Battery discharge test with configurable test parameters and timed intervals

» Battery symmetry test

» Advanced battery life counter

» Low voltage disconnect (LVD) for up to 6 battery branches

» Non essential load disconnect

» Alarm Manager withconfiguration/management of 200 predefined alarms

» Event history log with full time stamping

» System security via password protected, multi-level access

» Equation interpreter for total customer flexibility in alarm condition definition and configuration

» Local and remote system alarm reporting with Modem* autodial-out facility

» TCP/IP* connection, SNMP management available, email alerter, http access

» MOD BUS*-J BUS* connection

» Win50, WinSite, Windows compatible supervision software

» CE

*Optional expansion boards

For use with rectifiers
SM1800, SM2000, SM5700

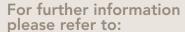### For use with PC softwares
Win50, WinSite

AEG
POWER SOLUTIONS

NRC50
SPECIFICATION

Input suply voltage	18 - 80Vdc
Nominal current	1.5A (48V input)
Battery Charge Modes	Float, Equalize (Charge modes have configurable Float Temperature Compensation curve (FTC) and di/dt charge limiting)
Battery Test	Automatic programmable, or manually triggered battery test (Test undertaken at constant discharge current) Multiple branches battery connection test with configurable parameters (manually & automatically triggered) Battery symmetry test Advanced battery life counter with ambient temperature integration Battery history log

CONNECTIONS

Digital outputs	8 relay outputs: (expandable to 40) 80V/300mA
Alarm outputs	4 software configurable volt-free changeover relay contacts: 250Vac/4A
Analogue output	1 opto-isolated analogue output: -15V to + 15V max. (software programmable limits)
Digital inputs	16 opto-isolated inputs: (expandable to 80) 0-5Vdc (12 V-70Vdc available via external interface board)
DC voltage measurement	2 voltage measurement inputs 0/60V or 0/5V link selectable
AC voltage measurement	3 voltage measurement inputs 0/20Vac
Communication ports	1 isolated RS485 or RS232C link selectable
DC current measurement	2 current + sign measurement inputs -50 mV/50 mV, -100 mV/100 mV 0/5 link selectable 2 current measurement inputs 0/50mV, 0/100mV, 0/5V link selectable
Temperature measurement	I2C port, up to 8 sensors

MAINS MEASUREMENT

Voltage	Single or three phase; range 20Vac
Frequency	0/60 Hz
Current (option)	Single or three phase
Communications	Direct through RS242/RS485, connection ports, optional modem* or Ethernet board* (*Win50 Windows interface software package available)

MECHANICAL SPECIFICATION

Dimensions	88mm (2U) H, 445mm (19") W, 245mm D
Weight	2.5kg to 3.6kg* (optional expansion boards)
Ingress protection	IP20
Mounting	Horizontal 2U, 19" racks
Connections	All rear connectors

ENVIRONMENTAL

Cooling	Natural convection cooling
Operating temperature	-10°C to +60°C
Storage temperature	-40°C to +70°C
Humidity	0% to 95% non condensing
Altitude	0 - 4000 m operating

STANDARDS

Safety	EN60950
EMC	Emission: EN61000-6.3/6.4 - Immunity: EN61000-6.1/6.2
Telecom networks	EN300386-2 - 300132-2
Environment	EN300019 (transportation storage and operation) ROHS Directive on Restriction of use of certain Hazardous Substances WEE directive on Waste Electrical and Electronic Equipment
Approvals	CE

AVAILABLE CONFIGURATIONS

Product references	NRC50 Alphanumeric display

For further information please refer to:

www.aegps.com
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