

Smartpack2 Controller

Navigation and Menu Tree



This section is read-only access. Scroll through the menus and interrogate or edit the system information about AC mains, generator, rectifiers, solar chargers, DC-DC converters, system load, battery and voltage information, inputs and outputs, and control system components information.



Note: This section is password-protected and should only be used by System Administrators.

Use this section to interrogate the system, and to make changes or reprogram the system factory default parameters. Administrators can program basic system parameters, network configuration, system voltages, system calibrations, generator configuration, rectifier's configuration, solar chargers configuration, DC-DC converters configuration, battery configuration, battery test and battery boost configuration, symmetry configuration.



Note: This section is password-protected and should only be used by System Administrators.

Use this section to configure the system LVD devices and system alarm tables, to create/delete and to enable/disable alarms and alarm groups, enable/disable inputs and outputs of the system, program alarms alarm levels and alarm severity levels for AC mains alarm, generator alarm, rectifiers alarm, solar chargers alarm, DC-DC converters alarm, load alarm, battery alarm, inputs/outputs alarm, and control system alarm.



Note: This section is password-protected and should only be used by System Administrators.

Use this section to execute commands to start and stop specific functions of the power system. Such commands include (but are not limited to): reset alarms, start/stop battery test, start/stop battery boost, reset the system configuration, relay test.

Note: testing relays may activate the system LVD devices.



Note: This section is password-protected and should only be used by System Administrators.

The Smartpack2 controller features a SD card slot. This section of the controller allows you to download information and data from the controller and store it on the onboard SD card. From the SD card, configuration profiles and software upgrade can be uploaded to the control system, to the Smartpack2 controller, the Smartpack2 basic controller, Smartpack2 basic industrial controller, and CAN nodes.



This section is read-only access. Use this section to access information about active alarms, system events, voltage information, load information, battery information, and battery test results. The system hardware and software inventory can be displayed on this section.



This section is read-only access. It displays daily and monthly energy statistics for the highest, lowest and average values.



This section is read-only access. It displays general information and guided steps to commissioning the power system.

Navigation and Menu Tree

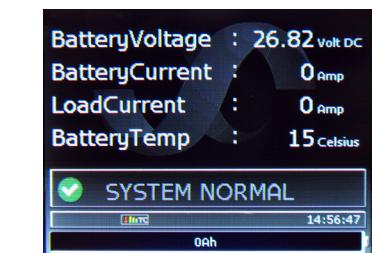
Smartpack2 Controller



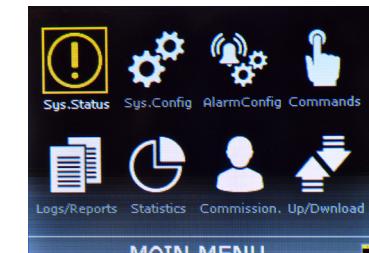
Navigation Keys

	Enter Key	To change from Status mode to Menu mode and to select options, enter values
	Cancel Key	To navigate to previous level, view alarms, and cancel options and values
	Left or Right Key	To navigate one page up or down and to highlight options
	Up or Down Key	To navigate up or down, highlight options and increase or decrease value.

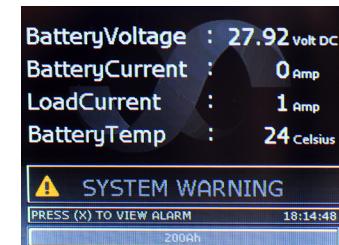
Menu Navigation



Press keys to go to the MAIN menu.



Press key to go inside a menu.

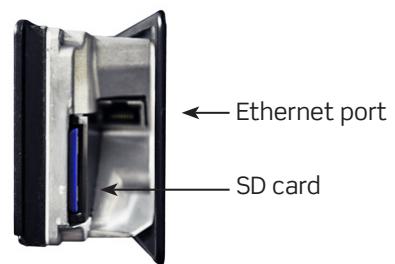


Press key to view Alarms.
(ALARM only appears when an alarm is active.)

Accessing the SD Card and Ethernet Port



Open the controller by sliding the lever from right to left.



SYSTEM STATUS	
Mains	[Select Group]
	No Of Phases
	Mains Low
	Mains Volt 1
	Mains Volt 2
	Mains Volt 3
Generator	Generator Fail
	Generator Activation
	Discharge Value
	Mains Not Present
	Charge Time
	Fuel Remaining
Rectifiers	[Select Group]
	No Of Modules
	Rect Current
	Rect Error
	Rect Low Mains
	Rect Comm Err
	Rect Capacity
	Curr Share Err
	Rectifier Temp
Solar	No Of Solar Chargers
	Solar Current
	Solar Charger Error
	Solar Comm Error
	Solar Symmetry Error
	Solar Charger Temp
DcDc	No Of DcD Convs
	DcD Current
	DcD Error
	DcD Comm Error
	DcD Capacity
	DcD Temp
Load	No Of Load Groups
	Load Current
	Status Fuse
	Status LVLD
Battery	Battery Voltage
	Battery Current
	Battery Temp
	Battery Life Time
	LVBD
	Fuse
	Battery Quality
	Bad Test Results
	Battery Tot Cap
	Battery Rem Cap
	Battery Used Cap
	Battery Time Left
	Delta String Curr
	Ah Charged
	Ah Discharged
Inputs	ProgInput 1.1
	Prog Input 1.2
	Prog Input 1.3
User-defined names	Mains 81.1
	Mains 81.2
	Mains 81.3
	Mains 81.4
	Mains 81.5
	Mains 81.6
Outputs	Major alarm
	Minor alarm
	Mains alarm
	Fuse alarm
	Battery high
	Battery low
	Rectifier alarm
	Alarm Group 08 ...17
	Output Blocked
	LVBD
	LVLD1
	LVLD2
CtrlSystem	No Of Ctrl Unit(s)
	Ctrl Unit Error
	CU Err Batt Monitor
	CU Err IO-Unit
	Ambient Temp
	Batt-Ambient Temp
	User Suspended
	Temperature1.1
	Temperature1.2
	Temperature1.3
	Earth Fault 1
Outdoor	Outdoor hardware ‡

SYSTEM CONFIG	
PowerSystem	GeneralSystemConfig
	ReferenceVoltage
	Number Of Battery Cells
	Batt Capacity Scale - Ah/Percent?
	Temp Scale-Celsius/Fahrenheit?
	Syst Polarity - Positive/Negative?
	Curr Resolution - Amp/DeciAmp?
	Generator Func - Std/Advanced?
	Critical Criteria
	Language
	Year
	Month
	Day
	Hour
	Minute
	Agent IPv4 Address
	Network Subnet Mask
	Default Gateway
	Change Service PassWd
	Display timeout - (0 = Off)
	Keylock timeout - (0 = Off)
	Rectifier OVS Limit
	Agent IPv6 Address
	System Voltages
	Reference Voltage
	Boost Voltage
	Battery Test End Voltage
	Rectifier Standby Voltage
	Battery Disconnect Voltage
	Battery Reconnect Voltage
	Rectifier OVS Limit
	Rectifier Emergency Voltage
	TaskScheduler
	Sel.Task(up/dwn) [01 - 10]
	SystemCalibration
	Voltage-HiPoint Cal Value [V]
	Voltage-HiPoint A/D Value
	Voltage-LoPoint Cal Value [V]
	Voltage-LoPoint A/D value
	Current-HiPoint Cal Value[A]
	Current-HiPoint A/D Value
	Current-LoPoint Cal Value[A]
	Current-HiPoint Cal Value[A]
	Current-HiPoint A/D Value
	Current-LoPoint Cal Value[A]
	Current-LoPoint A/D Value
	Mains
	[SelectGroup Up/Dwn]
	NumberOfPhases
	Suppr.MainsMonitoring-Ena/Disa?
Generator	Generator - Enable/Disable?
	Long Charge Time [h]
	Stop Delay [min]
	Mains Fail Delay [min]
	Enable Boost During Charge
Rectifiers	[SelectGroup up/dwn]
	No Of Groups
	Suppr Err d Mains Fail - Y/N?
	Walk In Time - Short/Long?
	Module - BattPowered or Not?
	OVS Limit [V/Cell]
	Current Limit enable On/Off?
	Current Limit value [A]
	Emergency Volt value [V]
	Gen dep Start Up Delay On/Off?
Generator	Primary AI Group (OutpToActivate)
	Sec Al Grp (OutpToActivate)
	Cpty Ctrl Start/Stop-Ena/Dis?
	Start Gen On Disch Limit [%]
	Stop Gen On Charge Limit [%]
	Surr Lim Ctrl Stop/Ena/Dis?
	Gen Stop Current Limit [A]
	Voltage Contr Start-Ena/Dis?
	Start Generator on Voltage[V]
	Stop Gen On time limit[h]
	Cap/time Ctrl Start/StopEna/Dis?
	StartGenOnDischargeLimit[%]
	Stop Gen On Time Limit [h]
	Daily Generator Start Ena/Dis?
	Sunday - Start [h]
	Sunday - Stop [h]
	Sunday - Al Group to Activate
	Monday - Start [h]
	Monday - Stop [h]
	Monday - Al Group to Activate
	Tuesday - Start [h]
	Tuesday - Stop [h]
	Tuesday - Al Group to Activate
	Wednesday - Start [h]
	Wednesday - Stop [h]
	Wednesday - Al Group to Activate
	Thursday - Start [h]
	Thursday - Stop [h]
	Thursday - Al Group to Activate
	Friday - Start [h]
	Friday - Stop [h]
	Friday - Al Group to Activate
	Saturday - Start [h]
	Saturday - Stop [h]
	Saturday - Al Group to Activate
	Monthly Start Time [h]
	Monthly Start Day (1. start)
	Monthly Start Day (2. start)
	Monthly Al Grp To Activate
Rectifiers	[SelectGroup up/dwn]
	No Of Groups
	Suppr Err d Mains Fail - Y/N?
	Walk In Time - Short/Long?
	Module - BattPowered or Not?
	OVS Limit [V/Cell]
	Current Limit enable On/Off?
	Current Limit value [A]
	Emergency Volt value [V]
	Gen dep Start Up Delay On/Off?
Generator	Generator Start Up Delay [min]
	Efficiency Management?
	EffMgr RedundancyMode-On/Off
	EffMgr Off Delay [min]
	Eff Mgr Shuffl Time [hour(s)]
	No Of Solar Charger(s)
	Suppr SolErr dMains Fail - Y/N?
	OVS Limit [V/cell]
	No Of DcD Converters
	Reference Voltage
	OVS Limit [V/Cell]
	Current Limit enable - On/Off?
	Current Limit value [A]
	No Of Load Groups
	No Of LVLDs
Battery	Battery Config
	No Of Battery Banks
	No Of Battery Strings
	Capacity Per String [Ah]
	Temp Compensation On/Off?
	Reference Voltage [V/Cell]
	Reference temperature [C]
	Temperature Slope [mV/C/Cell]
	Min Compensation Volt [V/Cell]
	Max Compensation Volt [V/Cell]
	BattCurrentLimit - On/Off?
	Current Limit Value [A] (MainsFeed)
	Current Limit Value [A] (GenFeed)
	Normal/Simplified BattTest?
	EndVoltageSimpleTest [V/Cell]
	MaxTestDuration Enable/Disable?
	MaxTestDuration [min]
	MaxDischargeStop Enable/Disable?
	MaxDischargeStop [Ah]
	GuardTime - Enable/Disable?
	GuardTime [hours]
	AlarmGrp to Activate during Test
	IntervalTest Enable/Disable?
	NextInterval StartYear
	NextInterval StartMonth
	NextInterval StartDay
	NextInterval StartHour
	NextInterval StartMinute
	IntervalPeriod [days]
	AutoTest Enable/Disable?
	DiscontinuanceTest Enable/Disable?
	Repeat Frequency [days]
	Max duration [minutes]
	Boost Voltage [V/Cell]
	Stop Boost Curr Thres Ena/Disa?
	BatteryBoost Configuration

LOGS / REPORTS	
Active Alarm(s)	Show all active alarms ‡
Event Log	Show all events ‡
Data Log	Battery Voltage Show all events ‡
	Battery Current Show all events ‡
	Load Current Show all events ‡
	Total Rect Current Show all events ‡
	Mains Volt 1 Show all events ‡
	Mains Volt 2 Show all events ‡
	Mains Volt 3 Show all events ‡
	Power Show all events ‡
	Battery Temp Show all events ‡
	Battery Rem Cap Show all events ‡
BatteryTest Log	Show test results
Inventory Report	Company
	Site
	Model
	Install Date
	Serial Number
	Service Date
	Responsible
	Message 1
	Message 2
	SP2 Master1 info
	SW Info
	HW Info
	SP2 Basic 1 Info
	SW Info
	HW Info
	Battery Mon 1 Info
	SW Info
	HW Info
	I/O Unit 1 Info
	SW Info
	HW Info
	[Any other hardware] ‡

STATISTICS	
LoadCurrent	Daily Highest Show all events ‡
	Daily Lowest Show all events ‡
	Highest Hour Average Show all events ‡
	Month Highest Peak Show all events ‡
	Month Highest Average Show all events ‡
BatteryCurrent	Daily Highest Show all events ‡
	Daily Lowest Show all events ‡
	Highest Hour Average Show all events ‡
	Month Highest Peak Show all events ‡
	Month Highest Average Show all events ‡
BatteryVoltage	Daily Highest Show all events ‡
	Daily Lowest Show all events ‡
	Highest Hour Average Show all events ‡
	Month Highest Peak Show all events ‡
	Month Highest Average Show all events ‡
BatteryTemp	Daily Highest Show all events ‡
	Daily Lowest Show all events ‡
	Highest Hour Average Show all events ‡
	Month Highest Peak Show all events ‡
	Month Highest Average Show all events ‡
RectifierCurrent	Daily Highest Show all events ‡
	Daily Lowest Show all events ‡
	Highest Hour Average Show all events ‡
	Month Highest Peak Show all events ‡
	Month Highest Average Show all events ‡
SystemValues(Peak/Avg)	Battery Voltage
	Battery Current
	Battery Temp
	Load Current
	Tot Rect Current
	Mains Volt 1
	Mains Volt 2
	Mains Volt 3

COMMANDS	
System Commands	Reset Manual Alarm(s)
	Reset Number of Module(s)
	Delete Event Log
	Set Default + xml-file(s)
	Configurations
	LED Test
	Block Outputs - On
	Block Outputs - Off
	Reboot System
	Set Default Calibration
Battery Commands	Start Battery Test
	Stop Battery Test
	Start Battery Boost
	Stop Battery Boost
	Start Battery Equalize
	Stop Battery Equalize
	Reset Battery Lifetime Monitor
Output Test	Output Relay # 1
	Output Relay # 2
	Output Relay # 3
	Output Relay # 4
	Output Relay # 5
	Output Relay # 6

COMMISSIONING	
This section is read-only access. It displays general information and guided steps to commissioning the power system.	