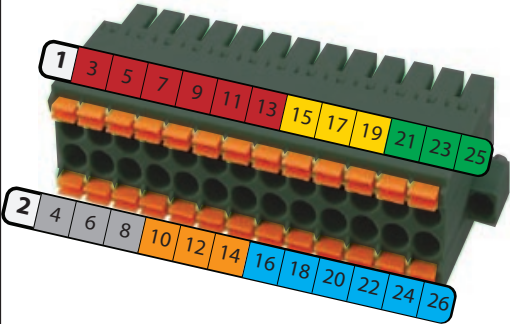


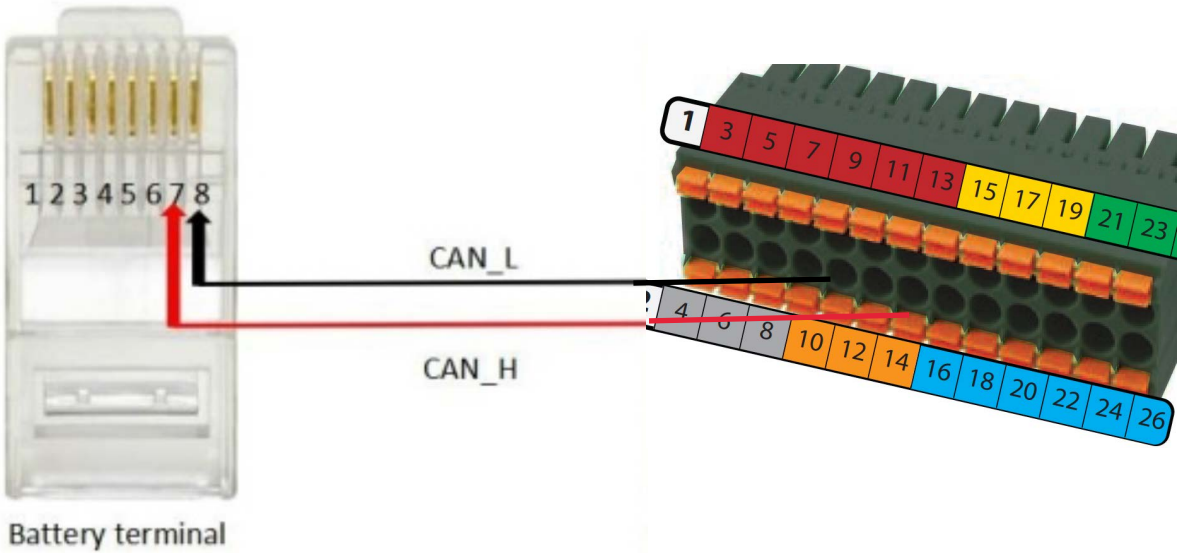
26-pin Connector Pinouts

Figure 4 26-pin connector

	Bottom Row
2	9–24VDC power input
4	GND
6	12VDC digital input 1
8	12VDC digital input 2
10	ISO1 CAN GND
12	ISO1 CAN L
14	ISO1 CAN H
16	ISO2 RS485 GND
18	ISO2 RS485 1A
20	ISO2 RS485 1B
22	ISO2 RS485 GND
24	ISO2 RS485 2A
26	ISO2 RS485 2B



	Top Row
1	GND
3	0–10VDC analog input 1
5	0–10VDC analog input 2
7	GND
9	4–20mA input 1
11	4–20mA input 2
13	GND
15	Relay 1 NO
17	Relay 1 COM
19	Relay 1 NC
21	Relay 2 NO
23	Relay 2 COM
25	Relay 2 NC



Charge Controller

[illegible]

Inverter

CONTROL

Operating ModeOperating

Clear-- Select an option --

Force Charger State-- Select an option --

ChargerYes

Refresh Configuration Data-- Select an option --

ResetReboot

Backup ModeMust be on Yes

Sell Enable/DisableNo

Auxiliary Output Control-- Select an option --

INVERTER

AC CouplingNo

Search Mode EnableNo

Search Delay2 s

AC PV Charge SOC Limit90 %

Maximum Search Watts50 W

CHARGER

Recharge Voltage44.2 V

Recharge SOC Delay60 s

Charge Block Stop07:00 PM

Recharge SOC3 %

Charge Block Start08:00 PM

BATTERY

Battery TypeLi-Ion

SOC Control EnableYes

Maximum Charge Rate25 %

Maximum Absorption Charge Current10 A

Default Battery TemperatureHot

Equalize SupportNo

Equalize Voltage Set Point64 V

Absorption Voltage Set Point53.0

Battery Temperature Coefficient-84 mV/degC

Maximum Discharge Time Interval300 s

Low Battery Cut Out Delay325 s

High Battery Cut Out58.4 V

Bulk Termination Time1 s

High SOC Cut Out99 %

Low SOC Cut Out10 %

Charge Cycle2 Stage

Battery Bank Capacity400 Ah

Maximum Bulk Charge Current25 A

Maximum Float Charge Current1 A

Absorption Time3600 s

Equalize NowNo

Bulk/Boost Voltage Set Point52.5 V

Float Voltage Set Point51 V

Maximum Discharge Current250 A

Low Battery Cut Out44 V

Low Battery Cut Out Hysteresis1 V

Bulk Termination Voltage50 V

Charge Cycle Timeout1440 min

High SOC Cut Out Delay10 s

Low SOC Cut Out Delay60 s

AC

AC PriorityGrid Priority (AC1)

AC2 Breaker Size60 A

AC1 Breaker Size60 A

AC1

AC1 Reconnect Time Delay (Transfer Switch Delay)12 s

AC1 Low Voltage Reconnect Offset6 V

AC1 High Voltage Reconnect Offset-6 V

AC1 High Voltage Time Delayed Disconnect135 V

AC1 Low Frequency Reconnect Offset3.5 Hz

AC1 High Frequency Reconnect Offset3.5 Hz

AC1 High Frequency Time Delayed Disconnect62.5 Hz

Operating Reference Voltage SelectionUse Static

Dynamic Operating Reference Voltage Filter Averaging Time7 s

AC1 Low Voltage Disconnect96 V

AC1 High Voltage Disconnect138 V

AC1 Low Voltage Time Delayed Disconnect99 V

AC1 Low Frequency Disconnect55 Hz

AC1 High Frequency Disconnect62.5 Hz

AC1 Low Frequency Time Delayed Disconnect57.5 Hz

AC1 Time Delayed Disconnects Delay2 sec

Static Operating Reference Voltage120 V

AC2

AC2 Reconnect Time Delay (Transfer Switch Delay)36 s

AC2 Low Voltage Reconnect Offset9.6 V

AC2 High Voltage Reconnect Offset-6 V

AC2 High Voltage Time Delayed Disconnect135 V

AC2 Low Frequency Reconnect Offset3.5 Hz

AC2 High Frequency Reconnect Offset3.5 Hz

AC2 High Frequency Time Delayed Disconnect62.5 Hz

AC2 Low Voltage Disconnect96 V

AC2 High Voltage Disconnect138 V

AC2 Low Voltage Time Delayed Disconnect102 V

AC2 Low Frequency Disconnect55 Hz

AC2 High Frequency Disconnect65 Hz

AC2 Low Frequency Time Delayed Disconnect57.5 Hz

AC2 Time Delayed Disconnects Delay2 sec

APC

Stack'd Series Parameter





Charge Overcurrent Offset

6

A

Discharge Overcurrent Offset

6

A

Overvoltage Offset

0.5

V

Undervoltage Offset

0.5

V

Charge Overcurrent Trip Time

3

s

Discharge Overcurrent Trip Time

3

s

Overvoltage Trip Time

3

s

Undervoltage Trip Time

3

s

ASSOC

AC1 Association (Grid)

Grid 1

AC2 Association (Generator)

Generator 1

AC Output Association (Loads)

AC Load 1

Battery Association

House Battery Bank 1

ADVANCED

Device Response To Insight Home/Facility Communication Loss

Heartbeat Disabled

Power Save

No

Battery Energy Balance

No

Remote Power Off

No

Generator Support Plus

No

External Load Switch

No

MODBUS

Communication Loss

Power Save

No

Battery Energy Balance

No

Generator Support Plus

No

External Load Switch

No

MODBUS

Modbus Slave Address (Port 502)

10

Modbus Slave Address (Port 503)

10

DEV

Periodic Transmit Enable

Yes

Identify Enable

No

LPHD

Device Name

XW6848-22

Device Number

0

System Instance

0

BMS



DEV

Device Association

House Battery Bank 1

Device Number

0

Device Name

BMS

Charge Controller

Device Settings > Charge Controller XW MPPT100[1686173] [Collapse all](#)

CONTROL

Charger Enable/Disable ☒	Force Charger State Bulk ?
Reset Reboot ?	Operating Mode Operating ?
Clear -- Select an option -- ?	Manual Aux -- Select an option -- ?
Refresh Configuration Data -- Select an option -- ?	

PV

Maximum Power Point Tracking ☒	HVMPP Reference Voltage 245.21 V
--	----------------------------------

CHG

Equalize Voltage Set Point 57.6 V	Equalize Support No
Bulk/Boost Voltage Set Point 56 V	Floating Voltage Set Point 57 V
Recharge Voltage 53.33 V	Absorption Voltage Set Point 56.5 V
Absorption Time 480 min	Charge Cycle 3 Stage ?
Maximum Charge Rate 100 %	Equalize Now No
Charge Mode Primary	Default Battery Temperature Hot

DEV

Periodic Transmit Enable Yes	Identify Enable No
Network Power Night time Disable No	Low Power at Night time Enable Yes

MODBUS

Modbus Slave Address (Port 503) 170

BATT

Battery Type Custom	Nominal Battery Voltage 48
Battery Bank Capacity 400 Ah	Battery Temperature Coefficient -108 mV/degC

ASSOC

DC Input Association (PV) Solar Array 1	Battery Association House Battery Bank 1
---	--

AUX

Auxiliary Output Trigger Source	Trigger Set	Trigger Clear
Low Battery Voltage	47.2 V	51.2 V
Low Battery Voltage Trigger Set Delay 1 s	Low Array Voltage Trigger Set 190 V	High Battery Voltage Trigger Set 56 V
Low Battery Voltage Trigger Clear Delay 1 s	Low Array Voltage Trigger Clear 195 V	High Battery Voltage Trigger Clear 52 V
Low Array Voltage Trigger Set Delay 1 s	High Array Voltage Trigger Set 575 V	High Array Voltage Trigger Clear 500 V
Low Array Voltage Trigger Clear Delay 1 s	Low Battery Temperature Trigger Set -10 degC	Low Battery Temperature Trigger Clear -5 degC
High Battery Voltage Trigger Set Delay 1 s	High Battery Temperature Trigger Set 45 degC	High Battery Temperature Trigger Clear 40 degC
High Battery Voltage Trigger Clear Delay 1 s	High Heatsink Temperature Trigger Set 90 degC	High Heatsink Temperature Trigger Clear 85 degC
High Array Voltage Trigger Set Delay 1 s		
High Array Voltage Trigger Clear Delay 1 s		
Low Battery Temperature Trigger Set Delay 1 s		
Low Battery Temperature Trigger Clear Delay 1 s		
High Battery Temperature Trigger Set Delay 1 s		
High Battery Temperature Trigger Clear Delay 1 s		
High Heatsink Temperature Trigger Set Delay 1 s		
High Heatsink Temperature Trigger Clear Delay 1 s		

LPHD

Device Name XW MPPT100	Device Number 0
System Instance 0	

Compact Series Parameter

Inverter

CONTROL

Operating Mode

Operating

Clear

-- Select an option --

Force Charger State

-- Select an option --

Charger

Yes

Refresh Configuration Data

-- Select an option --

Reset

Reboot

Backup Mode

Must be on

Yes

Sell Enable/Disable

No

Auxiliary Output Control

-- Select an option --

INVERTER

AC Coupling

No

Search Mode Enable

No

Search Delay

2

s

AC PV Charge SOC Limit

90

%

Maximum Search Watts

50

W

CHARGER

Recharge Voltage

47.5

V

Recharge SOC Delay

60

s

Charge Block Stop

07:00 PM

Recharge SOC

3

%

Charge Block Start

08:00 PM

BATTERY

Battery Type

Li-Ion

SOC Control Enable

Yes

Maximum Charge Rate

25

%

Maximum Absorption Charge Current

10

A

Default Battery Temperature

Hot

Equalize Support

No

Equalize Voltage Set Point

64

V

Absorption Voltage Set Point

56.5

V

Battery Temperature Coefficient

-B4

mV/degC

Maximum Discharge Time Interval

300

s

Low Battery Cut Out Delay

325

s

High Battery Cut Out

58.4

V

Bulk Termination Time

1

s

High SOC Cut Out

99

%

Low SOC Cut Out

10

%

Charge Cycle

2 Stage

Battery Bank Capacity

400

Ah

Maximum Bulk Charge Current

25

A

Maximum Float Charge Current

1

A

Absorption Time

3600

s

Equalize Now

No

Bulk/Boost Voltage Set Point

56

V

Float Voltage Set Point

51

V

Maximum Discharge Current

250

A

Low Battery Cut Out

47.2

V

Low Battery Cut Out Hysteresis

1

V

Bulk Termination Voltage

50

V

Charge Cycle Timeout

1440

min

High SOC Cut Out Delay

10

s

Low SOC Cut Out Delay

60

s

AC

AC Priority

Grid Priority (AC1)

AC2 Breaker Size

60

A

AC1 Breaker Size

60

A

AC1

AC1 Reconnect Time Delay (Transfer Switch Delay)

12

s

AC1 Low Voltage Reconnect Offset

6

V

AC1 High Voltage Reconnect Offset

-6

V

AC1 High Voltage Time Delayed Disconnect

135

V

AC1 Low Frequency Reconnect Offset

3.5

Hz

AC1 High Frequency Reconnect Offset

3.5

Hz

AC1 High Frequency Time Delayed Disconnect

62.5

Hz

Operating Reference Voltage Selection

Use Static

Dynamic Operating Reference Voltage Filter Averaging Time

74

sec

AC1 Low Voltage Disconnect

96

V

AC1 High Voltage Disconnect

138

V

AC1 Low Voltage Time Delayed Disconnect

99

V

AC1 Low Frequency Disconnect

55

Hz

AC1 High Frequency Disconnect

62.5

Hz

AC1 Low Frequency Time Delayed Disconnect

57.5

Hz

AC1 Time Delayed Disconnects Delay

2

sec

Static Operating Reference Voltage

120

V

AC2

AC2 Reconnect Time Delay (Transfer Switch Delay)

36

s

AC2 Low Voltage Reconnect Offset

9.6

V

AC2 High Voltage Reconnect Offset

-6

V

AC2 High Voltage Time Delayed Disconnect

135

V

AC2 Low Frequency Reconnect Offset

3.5

Hz

AC2 High Frequency Reconnect Offset

3.5

Hz

AC2 High Frequency Time Delayed Disconnect

62.5

Hz

AC2 Low Voltage Disconnect

96

V

AC2 High Voltage Disconnect

138

V

AC2 Low Voltage Time Delayed Disconnect

102

V

AC2 Low Frequency Disconnect

55

Hz

AC2 High Frequency Disconnect

65

Hz

AC2 Low Frequency Time Delayed Disconnect

57.5

Hz

AC2 Time Delayed Disconnects Delay

2

sec

APC

Compact Series Parameter

GFS Enable		
API Frequency Stop Level	57	Hz
API Gradient with Time	10	%
APR Frequency Stop Level	62	Hz
APR Gradient with Frequency	40	%

Grid Support		
Grid Support SOC	25	%
Maximum Sell Scale Percentage	100	%
Sell Delay 40 Sec	No	
Export (Sell) Power Block End	12:00 AM	
Load Shave Amps	0	A
Load Shave Start	06:01 PM	
Reconnect Time Delay	30	sec

Anti-Islanding Disconnect Over Frequency		
Anti Islanding Disconnect Over Voltage LN Fast	135	V
Anti Islanding Disconnect Over Voltage L1L2 Fast	270	V
Anti Islanding Disconnect Under Voltage LN Fast	66	V
Anti Islanding Disconnect Under Voltage L1L2 Slow	211.2	V

Grid Support		
Grid Support Voltage	47	V
Grid Support SOC Exit Delay	60	s
Maximum Export (Sell) Sell Amps	0	A
Export (Sell) Power Block Start	12:00 AM	
Grid Peak Load Shave	No	
Peak Load Shaving Delay	No	
Load Shave Stop	06:00 PM	
Anti-Islanding Disconnect Slow Delay	0.5	sec

Anti-Islanding Disconnect Under Frequency		
Anti Islanding Disconnect Over Voltage LN Slow	132	V
Anti Islanding Disconnect Over Voltage L1L2 Slow	264	V
Anti Islanding Disconnect Under Voltage LN Slow	105.6	V
Anti Islanding Disconnect Under Voltage L1L2 Fast	132	V

Generator Support		
Generator Support	No	
Generator Support Amps	48	A

Auxiliary Output Active Level		
Low Battery Trigger Set	47.2	V
Low Battery Trigger Clear	51.2	V
High Battery Trigger Clear	52	V
Low Temperature Trigger Set	0	degC
Low Temperature Trigger Clear	5	degC
High Temperature Trigger Set	45	degC
High Temperature Trigger Clear	35	degC
Heat Sink High Temperature Trigger Set	100	degC
Heat Sink High Temperature Trigger Clear	95	degC
Low SOC Trigger Set	25	%
Low SOC Trigger Clear	90	%
Time of Day Trigger Set	12:00 AM	

Auxiliary Output Trigger Source		
Low Battery Trigger Set Delay	1	s
Low Battery Trigger Clear Delay	1	s
High Battery Trigger Clear Delay	1	s
Low Temperature Trigger Set Delay	1	s
Low Temperature Trigger Clear Delay	1	s
High Temperature Trigger Set Delay	1	s
High Temperature Trigger Clear Delay	1	s
Heat Sink High Temperature Trigger Set Delay	1	s
Heat Sink High Temperature Trigger Clear Delay	1	s
Low SOC Trigger Set Delay	1	s
Low SOC Trigger Clear Delay	1	s
Time of Day Trigger Clear	12:00 AM	

EPC		
Grid Import Active Power Limit (Charge)	72	W
EPC Maximum Charge Power	6800	W

Unit Configuration		
Unit Configuration	Split Phase Master	

External Contactor		
External Contactor Backup Mode to Grid/Gen Tied Overlap	0.01	s

External Contactor Mismatch Fault Delay		
External Contactor Grid/Gen Tied to Backup Mode Delay	1	s

BMS		
BMS Communication Loss Triggers Fault or Warning	Warning	
SOC Communication Loss Triggers Fault or Warning	Warning	
Comms Lost Battery Charge Voltage Limit	57.4	V
Comms Lost Battery Charge Current Limit	0	A

BMS Communication Loss Trip Time		
SOC Communication Loss Trip Time	20	s
Comms Lost Battery Discharge Voltage Limit	41	V
Comms Lost Battery Discharge Current Limit	0	A

Compact Series Parameter

Charge Overcurrent Offset

6

A

Discharge Overcurrent Offset

6

A

Overvoltage Offset

0.5

V

Undervoltage Offset

0.5

V

Charge Overcurrent Trip Time

3

s

Discharge Overcurrent Trip Time

3

s

Overvoltage Trip Time

3

s

Undervoltage Trip Time

3

s

ASSOC

AC1 Association (Grid)

Grid 1

AC2 Association (Generator)

Generator 1

AC Output Association (Loads)

AC Load 1

Battery Association

House Battery Bank 1

ADVANCED

Device Response To Insight Home/Facility Communication Loss

Heartbeat Disabled

Power Save

No

Battery Energy Balance

No

Remote Power Off

No

Generator Support Plus

No

External Load Switch

No

MODBUS

Communication Loss

Power Save

No

Battery Energy Balance

No

Generator Support Plus

No

External Load Switch

No

MODBUS

Modbus Slave Address (Port 502)

10

Modbus Slave Address (Port 503)

10

DEV

Periodic Transmit Enable

Yes

Identify Enable

No

LPHD

Device Name

XW6848-22

Device Number

0

System Instance

0

BMS

DEV

Device Association

House Battery Bank 1

Device Name

BMS

Device Number

0