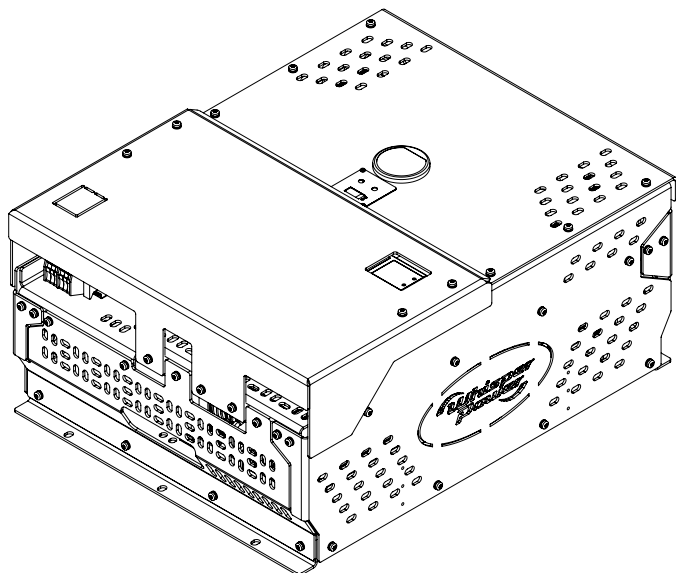


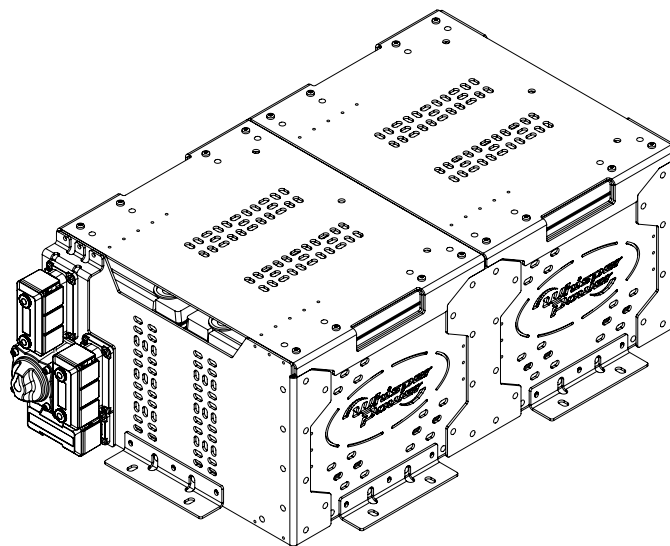


All-in-One Power System OctoPower 3 kW

Watt: 3000 230 V / (117 V) | **Hertz:** 50 Hz / (60 Hz)



AC Power Module



Battery Module

System Specifications

System specification	@25
Inverter power	3000 W
Peak power (500ms)	6000 W
Nominal voltage AC	230 V (120 V optional)
Nominal frequency	50 Hz (60 Hz optional)
Operating temperature	-20°C / +55°C
	Derating after 40°C
	Charging between 0oC-45°C

Mechanical Specifications

Power System Features	
Weight Power module	30.8 kg (67.9 lbs)
Weight Battery module	66 kg (145.5 lbs)
Dimensions Power module	601 x 480 x 277 mm (lwxh)
Dimensions 5120 Wh Battery module	670 x 420 x 300 mm (lwxh)
Material	Coated Aluminium

Component Description

Power System Features

AC to DC Battery Charger
DC to DC Battery Charger booster
Solar Charger
DC Distribution with automatic battery protection switch off at state off
at state of charge level
Automatic re-connect by AC, DC or Solar input
Optional 12 V output

WP Sine Wave Inverter Features

Pure Sine wave output
High efficient
Perfect for any load
230 V or 120 V
Full overload and over temperature protection
Automatic Battery Switch off at low DC

Charge Features

Fully automatic 3-stage charge method
AC, DC and Solar charging
AC Charger 60 A
Auto ranging AC input 90-260 V, 45-65 Hz
DC charger up to 100 A
Signal controlled DC input ranging 10.5-16 V and 21-32 V
Solar charger up to 50 V - 1000 W
Fully protected against short circuit, overtemperature, etc.



All-in-One Power System

OctoPower 3 kW

Application Data 1

OCTOPOWER

Specifications	230 V	120 V
AC Nominal Voltage	230 V	120 V
AC Input Voltage range	90-265 V	90-265 V
AC Power consumption Charger 60A	4,6 A	8,75 A
DC Input Voltage ranges	10,5-16 V and 21-32 V	
DC Input Voltage range Solar	14,5-50 V	14,5-50 V
DC Power Consumption Solar	up to 60 A	up to 60 A
DC optional output	12 V	12 V

Wiring	Diameter	Quantity + Color + Connection
AC wiring in/out	3x4 mm ²	2x
DC wiring Battery bank	70 mm ²	1x Red, 1x Black, M10
DC wiring Alternator/Start battery	35 mm ²	1x Red, 1x Black, M10
DC wiring Solar	4 mm ²	1x Red
DC wire IC Wire (alternator run signal)	1,5 mm ²	1x Yellow
DC wiring Remote Switch	1,5 mm ²	2x Brown, Blade connector

BATTERY MODULE

DC Nominal Voltage	12 V
Battery model	12 V, 100Ah, 1280 Wh (4x)
Battery type	LiFePO4, lithium Iron Phosphate battery
Battery bank capacity	400 Ah, 5120 Wh
Optional capacities	300 Ah and 800 Ah
Switch	300 A Compact
Recommended max. cable length	1,5 m
Cycle Life @ 1c 100% DOD	>2000 cycles
Temperature range (charging)	0°C to 45°C
Temperature range (discharging)	-20°C to +60°C
Temperature range (storage)	0°C to +40°C
Months self discharge	<3%
	400 Ah, 5120 Wh

Charge / Discharge parameters

DC Nominal Voltage	12,8 V
DC Charge cut off voltage	15,6 V
DC End charge Voltage	14,6 V
Maximum charge current	400 Ah
Maximum float charge current	200 Ah
DC Minimum discharge cut off voltage	8 V
DC Nominal discharge cut off voltage	10 V
Maximum discharge	400 Ah
Pulsed discharge current (10 sec)	480 A

Pure sine wave inverter - specifications at 25°C ambient temperature

AC Input	230 V	120 V (optional)
Power	2200 W	2200 W
AC Output Current in Amps	13 A	25 A
Power (peak 15min)	3000 W	3000 W
Power (peak 500ms)	6000 W	6000 W
AC Output Voltage	230 V	120 V
Output Frequency	50 Hz	60 Hz
Total Harmonic Distortion (THD)	<5% pure sine wave	

DC Input		
DC Input Voltage Range	10,5-15,5 V	10,5-15,5 V
DC Input Power	270 A	270 A
DC Consumption (no load)	1,6 A base	1,6 A base

Features		
Digital display	Input voltage/current, output power	
DC Low Battery Input voltage warning	11,0 V	11,0 V
DC Shutdown Low Battery Voltage	10,5 V	10,5 V
DC Recovery After Low Battery Voltage	12 V	12 V
DC Shutdown Battery Voltage too high	15,5 V	15,5 V
Ventilation	Forced cooling	

Regulatory Compliance

Conforms to: EC Council Directive 2004/108/EC Electromagnetic Compatibility Registration No: NTC 1310 406E & E-marking

WP-BC Supreme 12 V - 60 A

DC Output current (maximum)	60 A
Stages	Three: Bulk/Absorption/Float
DC Charge Voltage	14,4 V

AC Input Range	90-265 V
AC Input Frequency Range	47-63 Hz
AC Power Consumption full load at 230 V	4,6 A
AC Power Consumption full load at 120 V	8,75 A
Power Consumption (full load)	1050 W
Power Consumption (no load)	< 2 mA

Regulatory Compliance

Conforms to Safety (North America)	Approved to UL1236 including the marine supplement UL1564 CSA C22.2 107.2-01
Conforms to EMC (North America)	Class B according to FCC part15B and ANSI C63.4
Conforms to (European Union)	CE marked for the low voltage directive 2006-95-EC Complying with EN60335-2-29
	Battery chargers approved to IEC60529:2001, IP32 ingress protection level 8,75 A
Conforms to EMC (European Union)	CE marked for the EMC directive 2004-108-EC Complying with EN55014-1, EN55014-2, EN61000-3-2 and EN61000-3-3 (as equivalent IEC standards series)



All-in-One Power System OctoPower 3 kW

Application Data 2

WP-Suntrack Duo

WP-Suntrack Duo - Installed 2x	Single	Double
DC Output Current (total, maximum)	50 A	100 A
DC Output Voltage (nominal)	12 V	12 V
DC Output Power	775 W	1550 W
DC Input - Solar Array/Panels	Single	Double
DC Input Voltage	14,5-50 V	14,5-50 V
Maximum Solar Input Current	30 A	Extra string 30 (optional)
Maximum Solar Input Power	500 W	Extra string 500 W (optional)
DC Input - Alternator / Start Battery	Single	Double
DC Input voltage Ranges	10,5-16 V and	21-32 V
DC Maximum Input Current	50 A	100 A
Activation	Ignition control (IC)	

Regulatory Compliance

Conforms to (North America)	Class B according to FCC part15B and ANSI C63.4
Conforms to (European Union)	CE marked for the EMC directive 2004-108-EC Complying with EN55014-1, EN55014-2, EN61000-3-2 and EN61000-3-3 (as equivalent IEC standards series)

WBM Modular Smart Shunt *)

DC Voltage Range	7-70 V
Power Consumption	10mA
Voltage Measurement Accuracy	0,30%
Current Measurement Accuracy	0,40%

Regulatory Compliance

Conforms to	CE certified (EMC Directive 2014/30/EU) including EN50498 Automotive EMC
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Remote Battery Switch 12-500

Voltage Range	7-17 V
Power Consumption (idle state)	< 100 uA
Power Consumption (state change)	< 4 A
Remote Switch	Blue Sea SPDT 2155
Configuration	Normally Closed (NC)

Regulatory Compliance

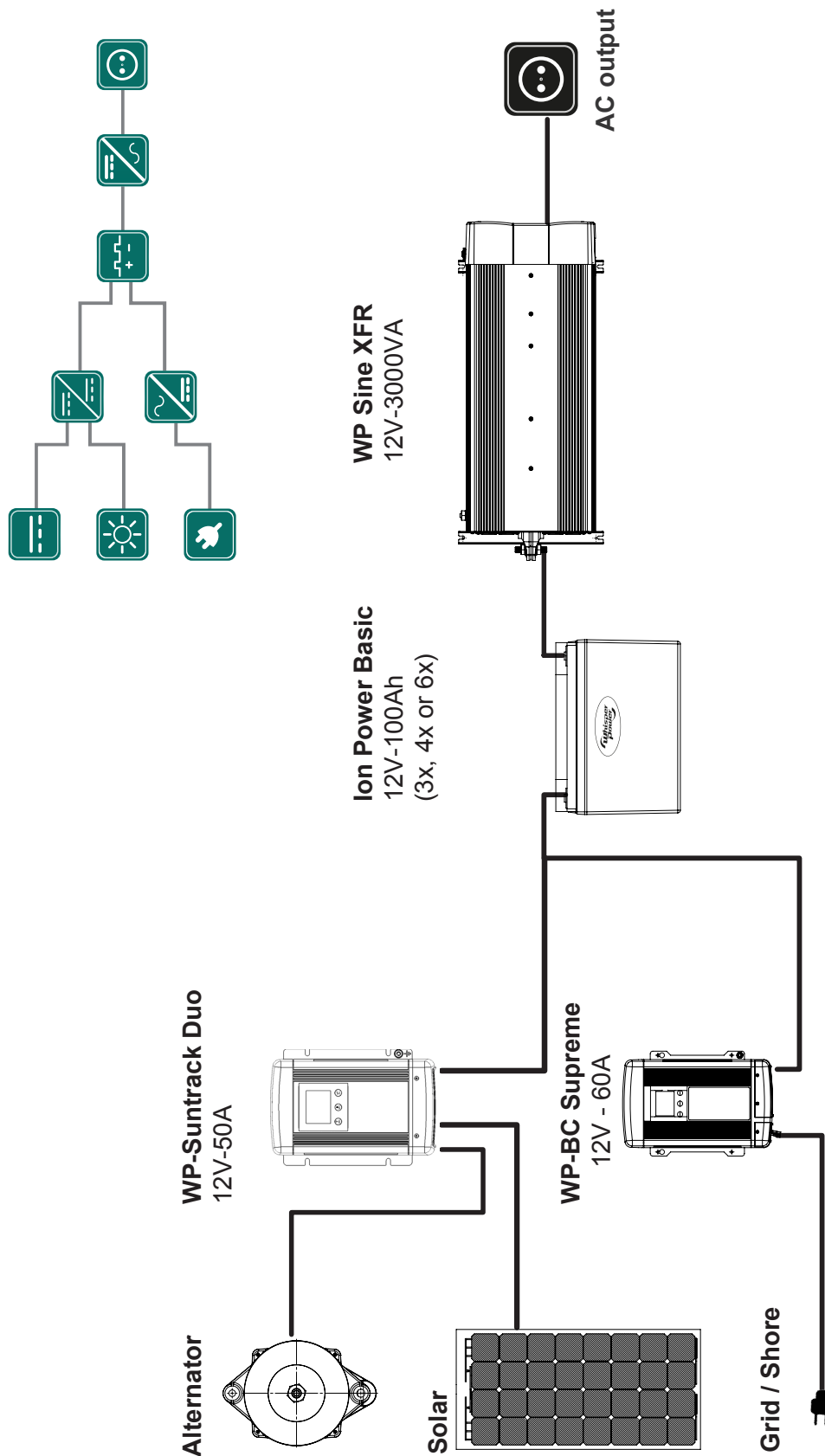
Conforms to	CE certified (EMC Directive 2014/30/EU) Low voltage Directive 2014/35/EU, RoHS Directive 2011/65/EU and Ignition protection standard ISO 8846)
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*) Bluetooth kit optional



All-in-One Power System OctoPower 3 kW

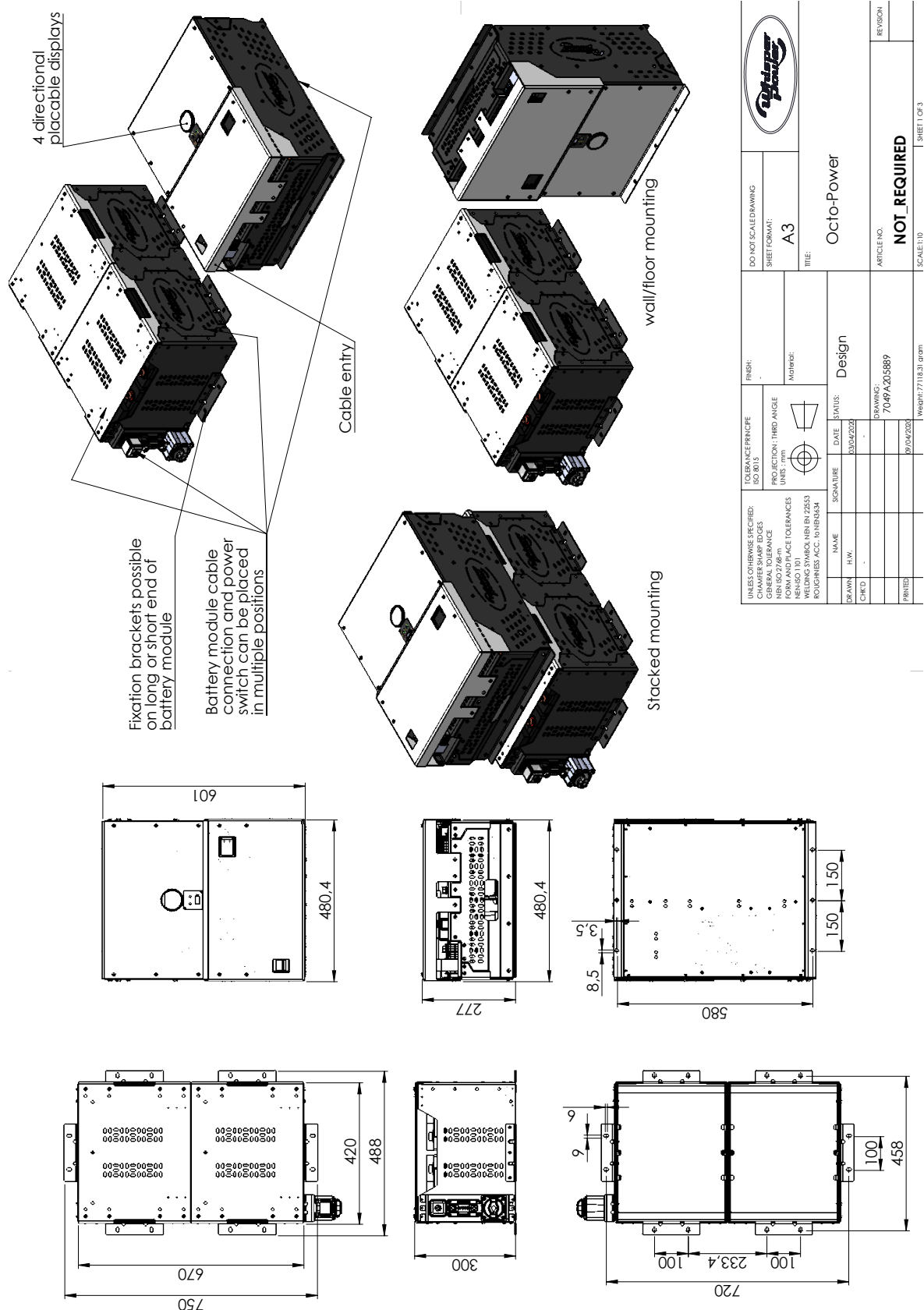
Drawing 1





All-in-One Power System OctoPower 3 kW

Drawing 2



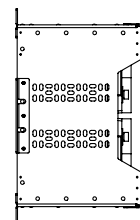
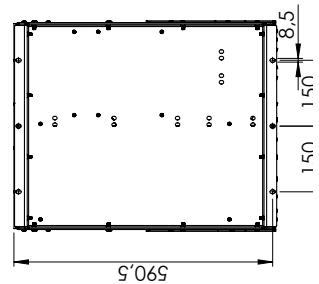
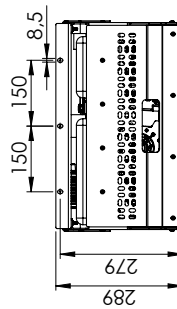
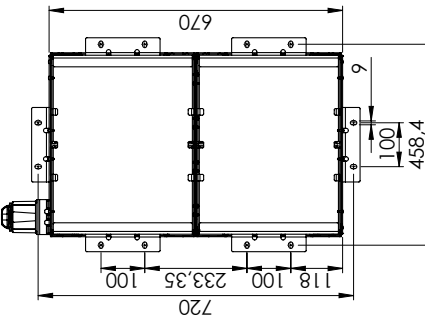
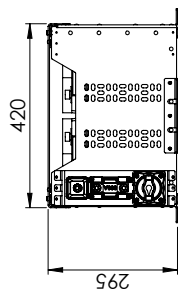
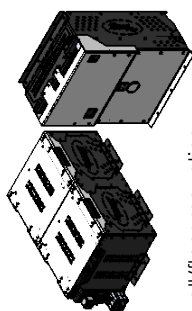
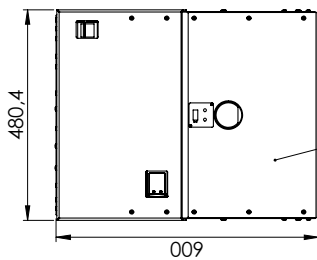
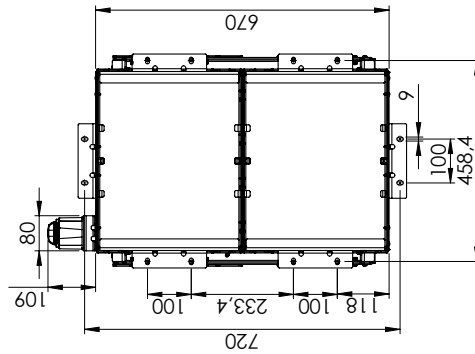
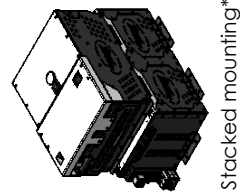


Technical drawing of the battery module showing top and side views with dimensions and a label.

Top view dimensions: 573 (width), 488 (depth).

Side view dimensions: 480 (height), 415 (depth).

Label: *Pressnut to be placed in covers battery module

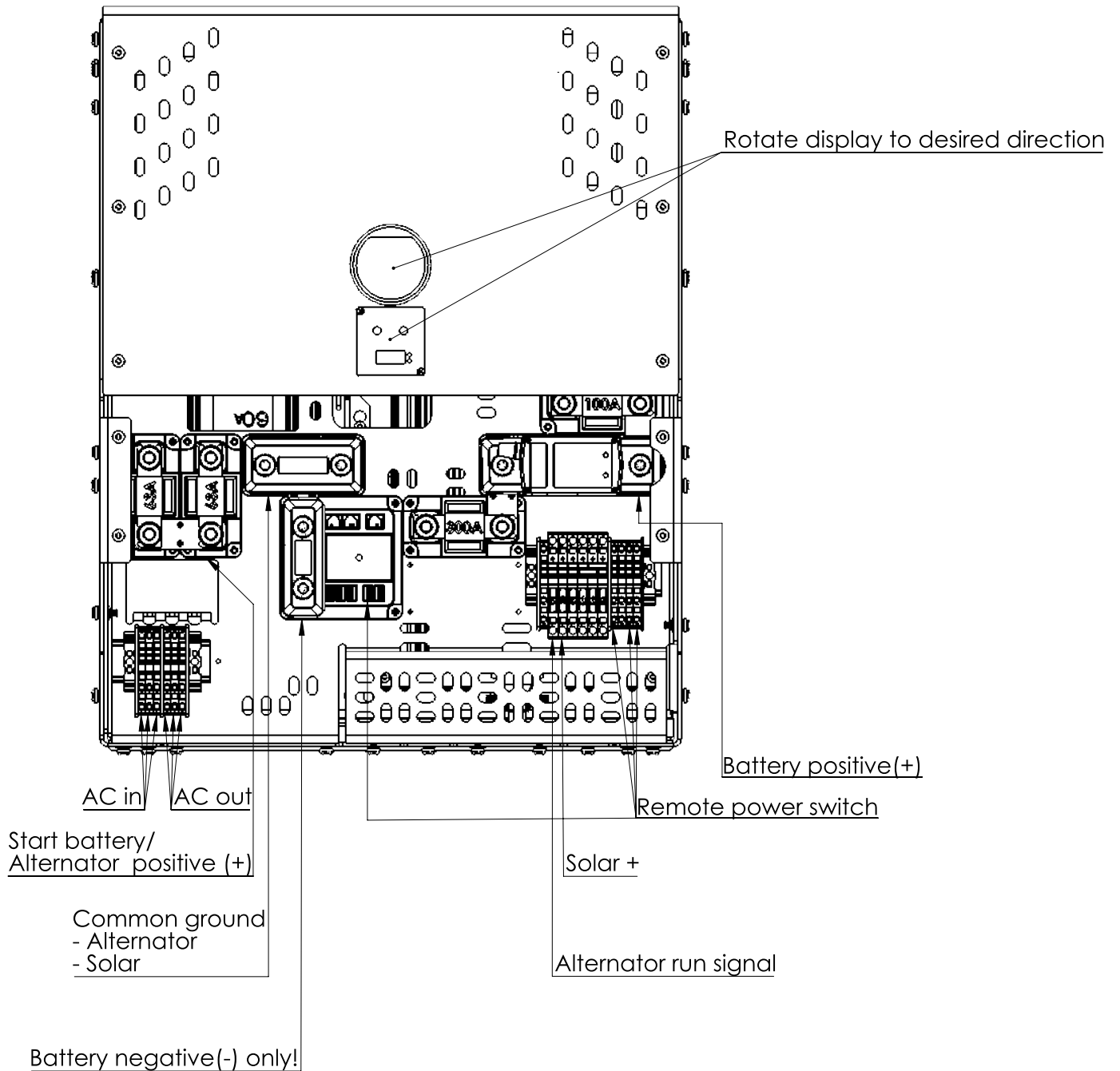


UNLESS OTHERWISE SPECIFIED: CHAMFER SHARP EDGES DIMENSIONS TO CENTERLINE FINISH: NENISO 27/68/0 FORM AND PLACE TOLERANCES NENISO 1101 TOLER. UNITS IN 25/53 ROUGHNESS ACC. TO NENISO 34		TOLERANCE PRINCIPLE ISO 801/53 PROJECTION : THIRD ANGLE UNITS: mm Modelling:		FINISH: -		DO NOT SCALE DRAWING SHEET FORMAT: A3			
NAME DRAWN H.W. CHECKED PRINTED		DATE 30/04/2020		STATUS: Design		TITLE: Octo-Power		ARTICLE NO. 700FA205869	
REVISIONS 01/04/2020		DRAWING: 700FA205869		DATE: 29/04/2020		REVISION NOT REQUIRED			



All-in-One Power System OctoPower 3 kW

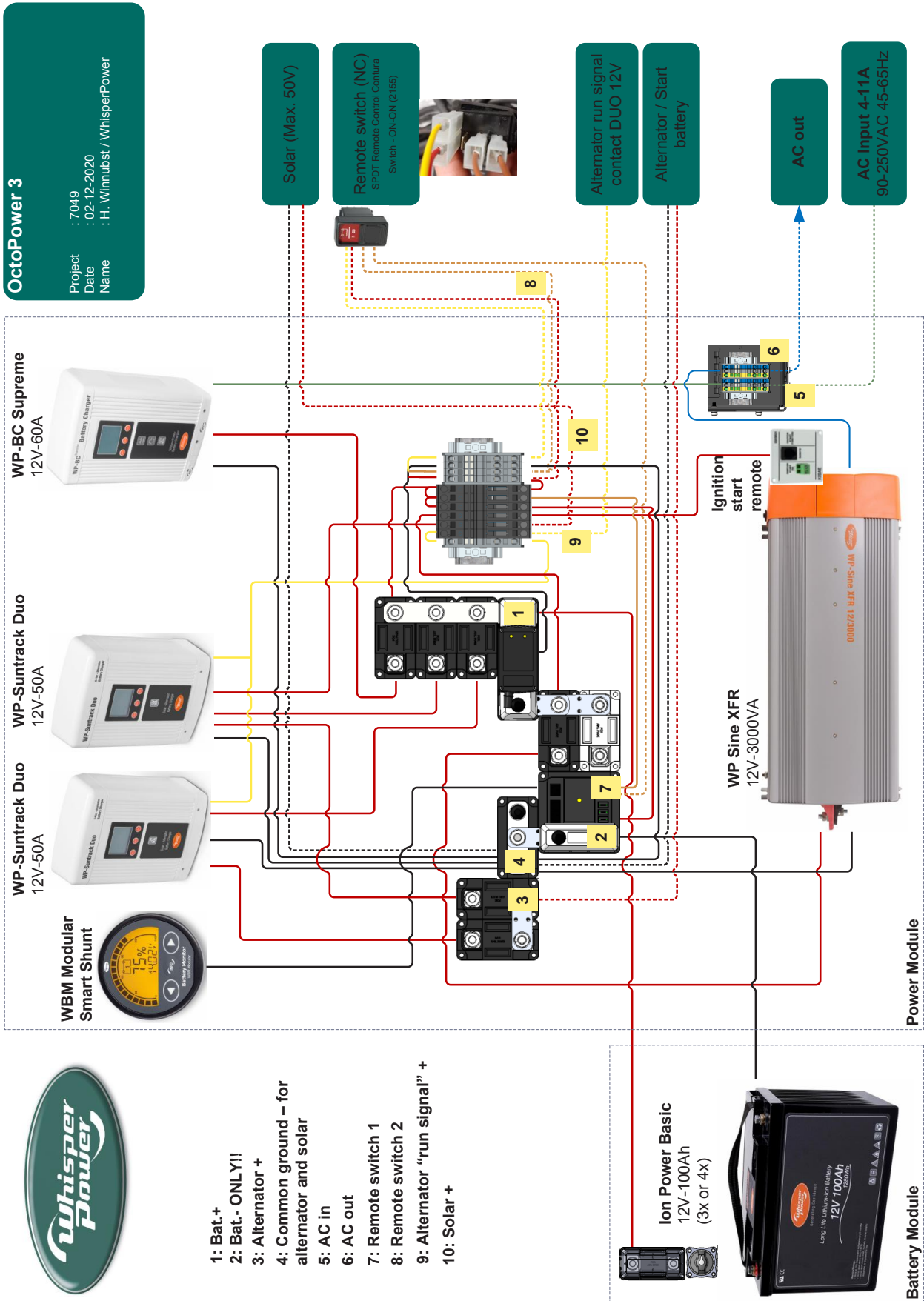
Drawing 4





All-in-One Power System OctoPower 3 kW

Drawing 5





All-in-One Power System OctoPower 3 kW

System Settings Data

The procedure to modify the settings for each individual component is shown in their manuals.

The settings used for this system are shown in the diagram below. Only the modified settings are specified, the factory settings are untouched.

Part	Settings
Remote battery switch	Mode 2: +Vdc continue

Battery monitor	Setting	Value
DC Input Voltage	F1.0	lith
Maximum Solar Input Current	F1.1	400 Ah
	F1.4	1,1
Maximum Solar Input Power	F5.0	SOC low
	5,1	15%
	5,2	19%
	5,7	int
	F9.9	Off
	F10.2	N/C

Suntrack Duo	Lithium	
DC Input voltage Ranges	Bul	14.6 V
DC Maximum Input Current	Flo	13.8 V
	H	50 A
	L	5 A

Supreme Charger	Lithium	
Voltage Range	Bul	
Power Consumption (idle state)	Flo	
Power Consumption (state change)	h	
Remote Switch	L	

Sinewave	
Conforms to	PS1 (factory set.)
	SDL (factory set.)
	ALO