









<b>W1</b> Switch Board Front			
1	S1 Out SBF	H1 (W5/2) + S7 OUT (W2/1)	X1-1
2	S2 Out SBF	H2	2
3	S3 Out SBF	H3	3
4	S4 Out SBF		4
5	S5 Out SBF		5
6	S6 Out SBF	K1 (85)	6
7	+12V for S1-S3 In	F2 + S7 IN (W5/1)	7
8	+12V Switch Light	S8	8
9	+12V for S4-S6 In	F5	9
10	+12V for USB, Terminal & U-Meter		X1-14
11	0V for Switch light & Terminals		11

<b>W2</b> Rear right			
1	+12V Reverse light	S7 OUT (W5/2) + S1 OUT (W1/1)	X1-1
2	0V Reverse Light		X1-33
3	+12V Reading light	F7	X1-10
4	0V Reading light / 0V Storage light		X1-11
5	+12V Storage light	S9 OUT (W5/4)	X1-21
6	not used	not used	X1-23

<b>W3</b> 230V AC OUT		
1	F20 / X6 (L1)	T1
2	X6 (N)	
PE	X6 (PE)	

<b>W4</b> 230V AC IN		
1	X5 (L1)	F22 (L1) - T1
2	X5 (N)	F22 (N) - T1
PE	X5 (PE)	F22 (PE) - T1

<b>W5</b> Switch Board Rear (Rear left)			
1	F3 (W1/7)	S7 IN	X1-7
2	H1	S7 OUT	X1-1
3	F4	S8 IN + S9 IN	X1-10
4	H8 / H9 Storage lights	S9 OUT	X1-21
5	not used	not used	X1-24
6	0V: H8 / X4	X4	X1-11

<b>W6</b> Tap Switch			
1	F5: +12V	S11: +12V IN	X1-18
2	M1: +12V	S11: +12V OUT	X1-19

<b>W7</b> E-Box LR			
1	not used	not used	X1-26
2	not used	not used	X1-27
3	not used	not used	X1-28
4	not used	not used	X1-29
5	not used	not used	X1-30
6	not used	not used	X1-31

<b>W8</b> Front Reading Lights			
1	F9: +12V	H5: +12V	X1-18
2	0V	H5: 0V	X1-11

<b>W9</b> Water supply			
1	S10: +12V OUT	M1: +12V	X1-19
2	0V	M1: 0V	X1-34
3	F9: +12V	S10: +12V IN	X1-18
4	M1: +12V	S10: +12V OUT	X1-19
5	0V	S10: 0V Status LED	X1-34
6	not used	not used	X1-25

<b>W10</b> Kitchen Light			
1	F7: +12V	H6: +12V	X1-10
2	0V	H6: 0V	X1-11

<b>W11</b> CB-Radio			
1	F11: +12V	G1: +12V	X1-22
2	0V	G1: 0V	X1-35

<b>W12</b> Camp Light			
1	F11: +12V	H10: +12V	X1-22
2	0V	H10: 0V	X1-35

<b>W13</b>			
VPC Terra			
1	F1 (FuseBox II): +12V AUX	G3: X1-1	X1-15
2	0V	G3: X1-9 (0V)	X1-36
3	F12: +12V MAIN	G3: X1-8	X1-16
4	K0-85 / SU1	G3: X1-7	X1-17
5	spare		X1-17
6	spare		X1-17

<b>W14</b>			
VPC Terra / Water Pump			
1	F9: +12V	G3: X2-3	X1-18
2	M1: +12V	G3: X2-4	X1-19

<b>W15</b>		
VPC Terra / MPP165 Duo		
1	G2: RJ45	G3: RJ45

<b>W16</b>		
Power Converter / Remote		
1	T1: RJ45	T1-R: RJ45

<b>W17</b>		
Webasto Air Heater / Remote		
1	X15	X6

<b>W18</b>		
Solar Panels / MPP165 Duo		
1	G2a: Solar Panels +	G2: Solar Panels +
2	G2b: Solar Panels -	G2: Solar Panels -

<b>W20</b>									
Roof Top Supply									
1	K1: 87	H4: +12V	X1-12	2.5mm <sup>2</sup>	rd	Auxiliary LED Headlight			
2	0V	H4: 0V	X1-13	2.5mm <sup>2</sup>	bk				
3	S2 Out SBF (W1/2)	H2: +12V	X1-2	1.5mm <sup>2</sup>	rd	Auxiliary LED Sidelight L			
4	0V	H2: 0V	X1-33	1.5mm <sup>2</sup>	bk				
5	S3 Out SBF (W1/3)	H3: +12V	X1-3	1.5mm <sup>2</sup>	rd	Auxiliary LED Sidelight R			
6	0V	H3: 0V	X1-33	1.5mm <sup>2</sup>	bk				
7	F3: +12V	RT: +12V	X1-7	1.5mm <sup>2</sup>	rd	X20 – 1	Not used		
8	H1: +12V	RT: Switch H1	X1-1	1.5mm <sup>2</sup>	rd	X20 – 2	X20a – 1	Rooftop tent +12V	
9	0V	RT: 0V	X1-35	1.5mm <sup>2</sup>	bk	X20 – 3	X20a – 2	Rooftop tent 0V	
						X20 – 4	Not used		

X1 Junction Box (32 term.)			
1	W1/1 , W2/1	2	●
	W5/2, W20-8	2	●
2	W1/2, W20-3	2	
3	W1/3, W20-5	2	
4	W1/4	1	
5	W1/5	1	
6	W1/6, K1-85	2	
7	W1/7, W20-7, F3	3	●
8	W1/8, K2-87, AirTop X15-1	3	●
9	W1/9, F5	2	
10	W8/1, W10/1	3	●
	W2/3, W5/3	2	●
	F7	1	●
11	W1/11, W8/2, W10/2	3	●
	W2/4, W5/6	2	●
	0V (F7)	1	●
12	W20-1, K1-87	2	
13	W20-2, 0V (F12)	2	
14	X15-10, K3-87, W1/10	2	
15	X2-Plug (+12V), F1	3	
16	W13/ 3, X15-11	2	
17	W13 /4, K0-85	1	
18	W14/1, W9/3	2	●
	W6/1, F9	2	●
19	W14/2, W9/4	2	●
	W6/2, W9/1 (M1 +12V)	2	●
20	F12, K1-30	2	
21	W5/4, W2/5	2	
22	W12/1, W11/1, F11	3	
23	W2/2 (not used)	1	
24	W5/5 (not used)	1	
25	W9/6 (not used)	1	
26	W7/1 (not used)	1	
27	W7/2 (not used)	1	
28	W7/3 (not used)	1	
29	W7/4 (not used)	1	
30	W7/5 (not used)	1	
31	W7/6 (not used)	1	
32	W5/1		●

X1 Junction Box (12 term.)			
33	W2/2, K1-86	2	●
	W20/4, W20/6	2	●
	0V (F3)	1	●
34	W9/2, W9/5, W10/2	3	●
	0V (F9)	1	●
35	W11/2, W12/2, W20/9	3	●
	0V (F11)	1	●
36	W13/2, X2-Plug (0V),	3	●
	0V (F1)	-	●
37	AirTop X15-12 (br),	2	●
	0V (F10)	-	●
38	W13/1, F1 (FuseBox II)	2	
39	spare		
40	spare		
41	spare		
42	spare		
43	spare		

<b>G2</b> Solar Charge Regulator (Votronic MPP165 Duo Digital)	
Nominal Operating Voltage (AC) in [V]:	12
Capacity Solar Module max. [Wp]:	165
Current Solar Moddule max. [A]:	10.0
Voltage Solar Module max. [V]:	50
Charging Current Batt. I / II max. [A]:	11.8 / 1.0
Current Consumption Stand-by in [A]:	0.004

<b>G2a</b> Solar Panel (Solar Panel Model: Eco Line ES100M36)		<b>G2b</b> Solar Panel (Eco Line ES100M36)	
Pmax [W]:	100	Pmax [W]:	100
Vmp [V]:	18.5	Vmp [V]:	18.5
Imp [A]:	5.42	Imp [A]:	5.42
Voc [V]:	22.8	Voc [V]:	22.8
Isc [A]:	5.84	Isc [A]:	5.84
NOCT [°C]:	50	NOCT [°C]:	50
VDC [V]:	1000	VDC [V]:	1000

<b>G3</b> Votronic Power Control (VPC Terra)	
Nominal Voltage Board Battery [V]:	12
Current Consumption [mA]:	6..60 mA, depending on illumination
Switching Current Pump max. [A]:	16

<b>T1</b> Sinus/Sine Inverter (Ective CSI-52)	
Nominal Voltage Board Battery [V]:	12
Output AC voltage [V]:	230 (AC voltage fluctuation: max. 10%)
Output Frequency [Hz]:	50 ± 1%
Waveform:	Pure sine wave (THD < 4%) at rated input voltage
Idle current consumption charger CSI-series [mA]:	~45
Power of the charger [W]:	140

<b>K0</b> Isolating relay (Nagares RL/180-12)	
Nominal Voltage [V]:	12
Continuous / Peak current [A]:	100 / 180
Manufacturer:	Nagares
Terminals:	M6 (Power), 6.3 x 8mm (Coil)
Coil current [mA]:	~380@12V DC

<b>K1, K2, K3</b> Standard relay (HELLA 4RD 933 332-041)	
Nominal Voltage [V]:	12
Rated / Inductive / Ohmic current max. [A]:	40 / 15 / 40
Manufacturer:	Hella
Terminals:	6.3 x 8mm
Coil current [mA]:	~150@12V DC

<b>Front Switch Board</b> FXC F-005 (Purishion)	
Nominal Voltage [V]:	12
Rated switch current max. [A]:	20
Manufacturer:	Purishion
Terminals:	6.3 x 8mm