

INVERTER								
INTERNAL			External					
PIN #	COLOR	FUNCTION	PIN #	COLOR	SHIELD	NOTES	DIRECTION	Grouping
1	BRN	MSDN	25	GRN		4 MG2 shutdown	INPUT	1
2	WHT	MFIV	27	GRN		MG2 inverter fail	OUTPUT	2
3	GRN	MIVT	26	BLU		4 MG2 inverter temp	OUTPUT	2
4	BRN	BLK	20	RED		1 MG1 shutdown	INPUT	1
5	WHT	GRN	22	GRY		4 MG1 inverter fail	OUTPUT	2
6	GRN	BLK	21	WHT		1 MG1 inverter temp	OUTPUT	2
7	BLU	GUU	4	BLK		1 MG1 phase U PWM	INPUT	6
8	BLU	RED	5	GRN		1 MG1 phase V PWM	INPUT	6
9	YEL	GWU	6	YEL		1 MG1 phase W PWM	INPUT	6
10	GRY	GIWA	18	RED		3 MG1 phase current w	OUTPUT	4
11	GRY	BLK	19	GRN		3 MG1 phase current w	OUTPUT	4
12	LT GRN	GIVA	2	WHT		3 MG1 phase current v	OUTPUT	4
13	VIO	RED	3	BLK		3 MG1 phase current v	OUTPUT	4
14	RED	IGCT	1	BLU		2 pin connector		1
15	BLK	GND	2	WHT	BLK	2 pin connector		1
16	PNK	OVH	28	BRN		Over voltage	OUTPUT	1
17	VOI	VH	12	YEL		2 Inverter cap voltage	OUTPUT	1
18	BLU	BLK	9	BLK		4 MG2 phase U PWM	INPUT	3
19	BLU	YEL	10	WHT		4 MG2 phase V PWM	INPUT	3
20	YEL	BLK	11	RED		4 MG2 phase W PWM	INPUT	3
21	N/A							
22	N/A							
23	N/A							
24	VIO	YEL	8	WHT		2 MG2 phase current V	OUTPUT	5
25	LT GRN	BLK	7	GRN		2 MG2 phase current V	OUTPUT	5
26	GRY	RED	24	BLK		2 MG2 phase current W	OUTPUT	5
27	GRY	GRN	23	RED		2 MG2 phase current W	OUTPUT	5
28	BLK	WHT	16	YEL		4 Inverter ground	INPUT	1

CONVERTER / BOOSTER								
INTERNAL			External					
PIN #	COLOR		FUNCTION	PIN #	COLOR	SHIELD	NOTES	DIRECTION
1								
2								
3	GRN	RED	CT	14	RED	5	Boost converter temp	OUTPUT
4	VIO	WHT	VL	15	YEL	5	Boost converter input voltage	OUTPUT
5	PNK		OVH	28	BRN		Over voltage	OUTPUT
6	BLU		CPWM	13	BLK	5	Boost converter PWM switch signal	INPUT
7	BLK		GND	2	WHT BLK		2 pin connector	
8	RED		IGCT	1	BLU		2 pin connector	
9								
10								
11								
12	PNK	BLU	OVL	31	BLK		Boost converter over voltage	OUTPUT
13	WHT	RED	FCV	30	WHT		Boost converter fail	OUTPUT
14	BLK	RED	GCVN	32	GRN	5	Boost converter ground	INPUT
15	BRN	WHT	CSDN	29	WHT	5	Boost converter shutdown	INPUT
16								

Grouping |

DC-DC CONVERTER									
INTERNAL			External						
PIN #	COLOR		FUNCTION	PIN #	COLOR		SHIELD	NOTES	DIRECTION
	BLK	WHT	GND	1	WHT	BLK		Ground	INPUT
	GRN	WHT	ITE	2	YEL		1	A/C enable??	
	YEL	WHT	ET1	3	RED		2		
	BRN	WHT	CLK	4	GRN		1	A/C PWM?	
	BLU	WHT	STB	5	WHT		2		
	RED	WHT	IG1	6	VIO			12V igniton	INPUT

34 pin

8 pin		1 inputs
4 pin		2 faults and temp
6 pin	3 and 6	motor PWM
10 pin	4 and 5	phase currents