

Company Introduction

- Company Name : OZ ENGINEERING INCORPORATION (abb : OZinc)
- Address : 13-6-202, Shinyokohama 3-Chome, Kohoku-Ku, Yokohama, Japan
- TEL & FAX : TEL +81-45-620-4095 / FAX +81-45-620-4096
- Established : 5th December 2016 ■ Capital Stock : 10 million Japanese Yen
- Name of CEO : Yukio Ozaki ■ Employees : 10 persons



- History : Our company was established for Technical Support of Itochu Corporation on 5th Dec., 2016.

We have 2 big business. One is for dealing with parts of Air Conditioner, Refrigerator, Freezer, Showcase, Medical Cooling Box, Vehicle's cooler systems and Vehicle's Freezer System.

(For example; Compressor, Motor, Electric Component Parts, Driver Unit and etc.)

Another is for dealing with parts of Communication system.

(For example; Terminal Connector, Patch Cord, Patch Panel, Trans and etc.)

- Sales Result : 2021 Year Itochu's Business : about 5.5 billion JPY, Own 5th...about 0.3 billion JPY
- Main Sales Customer : Qingdao Haier Group, Qingdao Hisense Group, Qingdao Mitsubishi Heavy Haier Group, Guangdong Midea Group, Ningbo AUX Group, Zhuhai Gree Group, Dalian Panasonic Cold-Chain, Taiwan Sanyo, Taiwan Ruixin, Chofu Industry, Sanyo Techno, Hitachi Johnson Control, Panasonic Japan and etc.

Branch Office in Japan

OZ ENGINEERING INCORPORATION

TECHNICAL CENTER / LOGISTICS CENTER

Address : 15-15, Minamiyana 3-Chome, Hadano, Japan

(We will move the above area from current center in 1st Oct., 2021.)



Related Company

QINGDAO OZ TECHNOLOGY CO.,LTD. (add : OZtec)

■ Address : B-3403, Lian Yun Gang Road No.33, Shi Bei-Qu, Qingdao 266071, China.

■ Established : 22nd March 2019 ■ Capital Stock : 10 million JPY (OZinc 100%)

■ Name of CEO : Luan Xue Mei ■ Employees : 2 persons

TAICANG KYOWA MECHANICAL & ELECTRICAL CO.,LTD. (add : KME)

■ Address : Fengnan Road No.36, Fengzhong Development Zone,
Shuangfeng Town, Taicang 215416, Jiangsu, China.

■ Established : 8th January 2008 ■ Name of CEO : Hu Meng Jie

■ Capital Stock : US\$600,000.00 ■ Employees : 70 persons

■ Approved : IATF16949, ISO14001, ISO50001, OHSAS18001



BUSINESS

■ Sales of Compressor for Air Conditioner, Refrigerator, Freezer and Showcase :
Reciprocating(Piston) Compressor, Rotay Compressor and Scroll Compressor



■ Sales of Controller PCB and Driver PCB for moving DC Inverter Compressor :
Those PCB were developed and designed by us.



■ Sales of Component Parts imported from oversea markets :

Motor, Trans, Terminals, Electric Components Parts and etc.



■ Sales of Own Articles produced in KME :

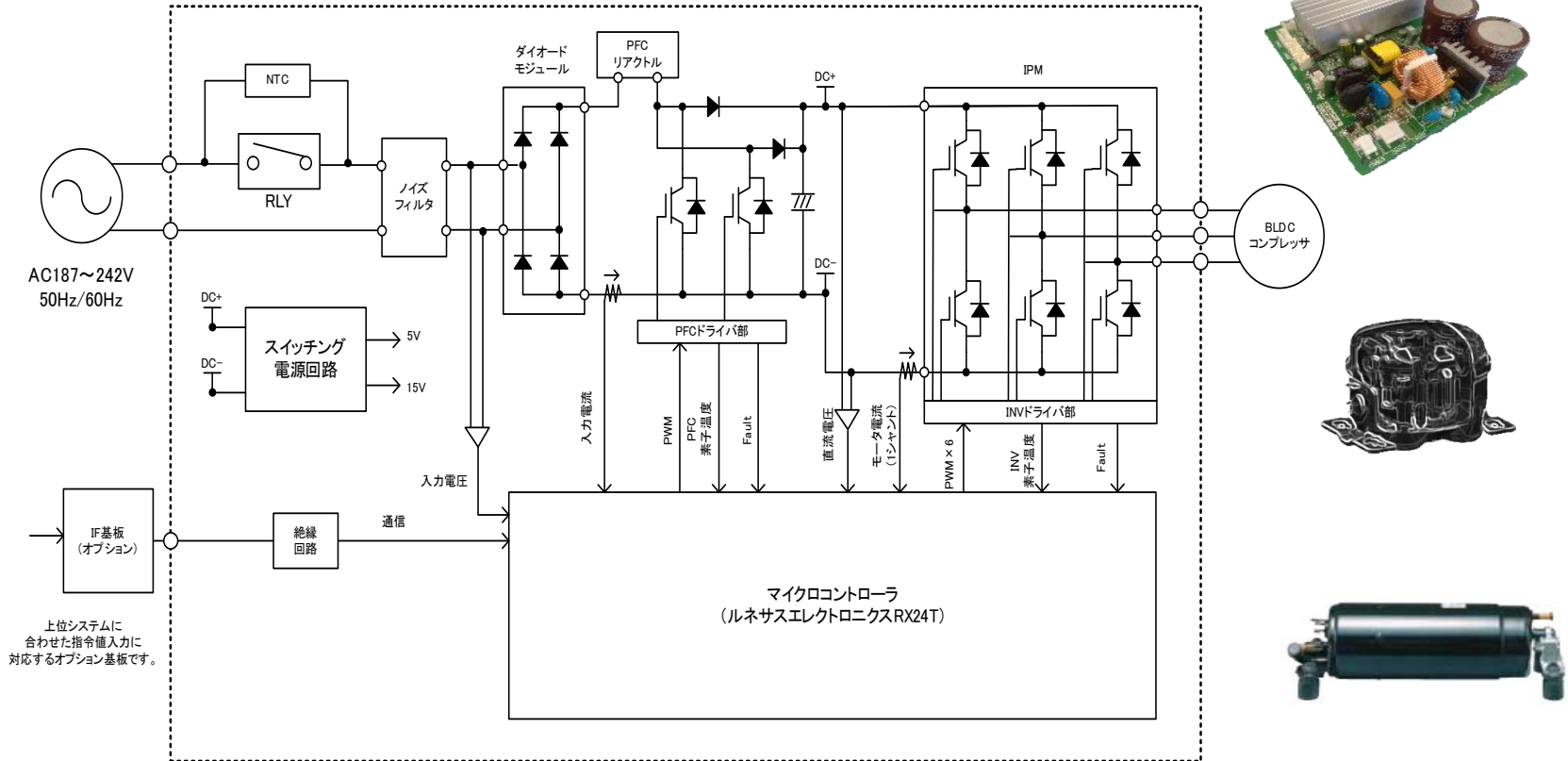
- Idling Stop Inverter Cooler for Truck use (Customer : ISUZU MOTORS)
- Parking Inverter Cooler for Truck use (Customer : WEBASTO)
- Electric Inverter Freezer System for Small Size Truck use (Customer : Nishio Reitou)
- DC Inverter Cooler for Motor Home use (in Japanese & Chinese Market)
- DC Inverter Cooler for Pleasure Boat use (in Japanese & Chinese Market)
- Battery Charger (in Japanese Market)
- DC Inverter Room Air Conditioner (in Japanese Market)


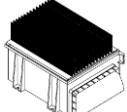



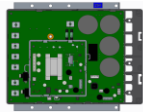
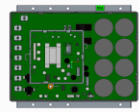
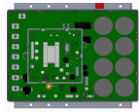


Driver PCB for moving DC Inverter Compressor

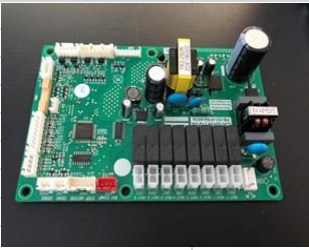

- This Driver controls BLDC Motor of Compressor by using sensor less drive (Sine wave Vector Control)
- AC input is used Active PFC circuit. Harmonic Current is controlled and Power factor is improved.
- Please select your requesting Compressor. We supply Driver PCB to you accordingly.

System Construction



駆動基板	レシプロ圧縮機用	単相AC200V帯				三相380V帯		
		機種No	DPA-WBC-0023-A0	DPP-RF-010A	DPP-BS-006A(20A)	DPP-BS-006A(30A)	DPP-109-07-A20A	DPP-BS-001A
電源電圧	単相AC187V～AC253V	単相AC187V～AC253V	単相AC195V～AC265V	単相AC195V～AC265V	単相AC195V～AC265V	三相AC340～AC450V		
電源周波数	50/60Hz共通	50/60Hz共通	50Hz共通	50Hz共通	50/60Hz共通	50/60Hz共通		
出力電力	1,000W (MAX)	3,200W (MAX)	3,000W (MAX)	4,000W (MAX)	6,200W (MAX)	7,500W (MAX)	15,000W (MAX)	20,000W (MAX)
出力(Hp)	≦ 1Hp	≦ 5Hp	≦ 4Hp	≦ 6Hp	≦ 7Hp	≦ 8Hp	≦ 12Hp	≦ 16Hp
出力電流(継続)	4.0 A	18.0 A	12.0 A	16.0 A	20.0 A	16.0 A	28.0 A	39.0 A
キャリア周波数	6.5 kHz	5.0 kHz	5.0 kHz	5.0 kHz	5.0 kHz	10.0 kHz		
PFC回路	有(アクティブ方式)	有(アクティブ方式)	有(アクティブ方式)	有(アクティブ方式)	有(アクティブ方式)	無		
圧縮機可能回転数	800 rpm ~ 6,000 rpm (13.3 rps ~ 100 rps)	15 rps ~ 120 rps	15 rps ~ 120 rps	15 rps ~ 120 rps	15 rps ~ 120 rps	15 rps ~ 120 rps		
通信方法	PWM信号	PWM信号	RS485信号	RS485信号	PWM信号 0～10V信号 4～20mA信号 RS485信号	RS485信号 (信号変換器による信号変更可能)		
		0～10V信号						
		4～20mA信号						
圧縮機端子	U V W	U V W	U V W	U V W	U V W	U V W	U V W	U V W
写真又は図								
寸法 (mm)	150 x 150 x 50 (基板のみのサイズ)	210 x 180 x 125 (ケース込みサイズ)	270 x 165 x 72 (基板のみのサイズ)	270 x 165 x 72 (基板のみのサイズ)	242 x 182 x 92 (基板のみのサイズ)	236 x 195 x 92 (基板のみのサイズ)	236 x 195 x 105 (基板のみのサイズ)	236 x 195 x 105 (基板のみのサイズ)
重量 (g)	0.5 kg	2.36 kg	1.5 kg	1.5 kg	0.708 kg	2.2 kg	2.8 kg	2.8 kg
ケース	有り、付ける事可能	有	無			無		
納品実績	2020年新規開発商品	2020年新規開発商品	Bule Star社に年間約5,000個	Blue Star社に年間約5,000個	2020年新規開発商品	Blue Star社に年間約5,000個	Blue Star社に年間約5,000個	Blue Star社に年間約5,000個

マルチ制御基板

マルチ制御基板				7セグ操作パネル	
基板名称	マルチ制御基板	交流電源出力	8個	写真	動作・表示仕様
機種No	PB-OZ-2FR4-001A	温度センサ-端子	4個		<ul style="list-style-type: none"> ・庫内温度表示、設定温度表示、DEF表示 ・LED点灯スイッチ ・FUNCTIONスイッチ ・設定温度等UP/DOWNスイッチ 
電源電圧	単相AC85V～264V	ドア開閉入力端子	2個		
電源周波数	50/60Hz共通	LED入力端子	2個		
圧縮機への出力信号	インバータ圧縮機駆動用基板への出力信号として、PWM信号	スプリングモーター端子	1個		
		WiFi通信端子	1個		
		寸法	150 x 100 x 40 mm		
操作パネル端子	1個	動作環境温度範囲	-10°C～60°C		
直流電源出力1	2個	動作環境湿度範囲	85%RH以下		
直流電源出力2	2個	保管温度範囲	-20°C～85°C		
		保管湿度範囲	85%RH以下		