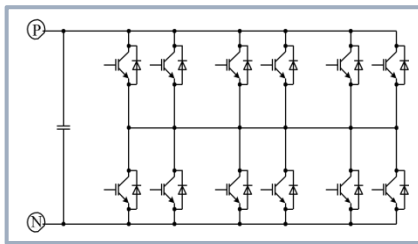
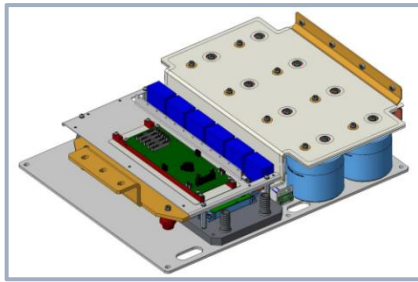


FPS216H126TW001



Symbol	Description	min	typ	max	Unit
Electrical Characteristics					
V_{DC}	Rated Full DC bus voltage		800		V
V_{AC}	Rated AC voltage		380		V_{RMS}
I_{AC}	Rated AC current		2160		A_{RMS}
I_{AC1}	Short-time overload		3240		A_{RMS}
f_{sw}	Switching frequency			4	kHz
PF	Power factor	-1.0		1.0	
P_{Loss}	Stack power loss		\		kW
V_{ISOL}	Insulation voltage		3.4		kV_{RMS}
IGBT module	Package	¹ 1200V/600A EconoDUAL™3			

Note1: Taking Infineon modules as an example, modules with compatible packages are available for use.

Symbol	min	typ	max	Unit
Environmental Data				
Liquid volume $\Delta V / \Delta t$	15			L/min
Inlet temperature T_{INLET}	-40		65	°C
Installation altitude	0		1000	m
Protection degree, According to EN 50178	IP00			
Pollution degree, According to IEC 60529	2			
Storage temperature	-40		65	°C
Operational ambient temperature	-25		55	°C
Relative humidity	0		95	%

Mechanical Data				
Dimensions, Length × width × height	648*500*148.6			mm
Weight	34			kg
DC terminal mounting torque M_{DC}	24			Nm
AC terminal mounting torque M_{AC}	55			Nm

Ordering No.

- FPS216H126TW001

Features

- 2 level
- Half-bridge
- 6 IGBTs in parallel
- Liquid cooling

Typical Applications

- High power converters
- Wind power generation
- Motor drive

Controller Interface

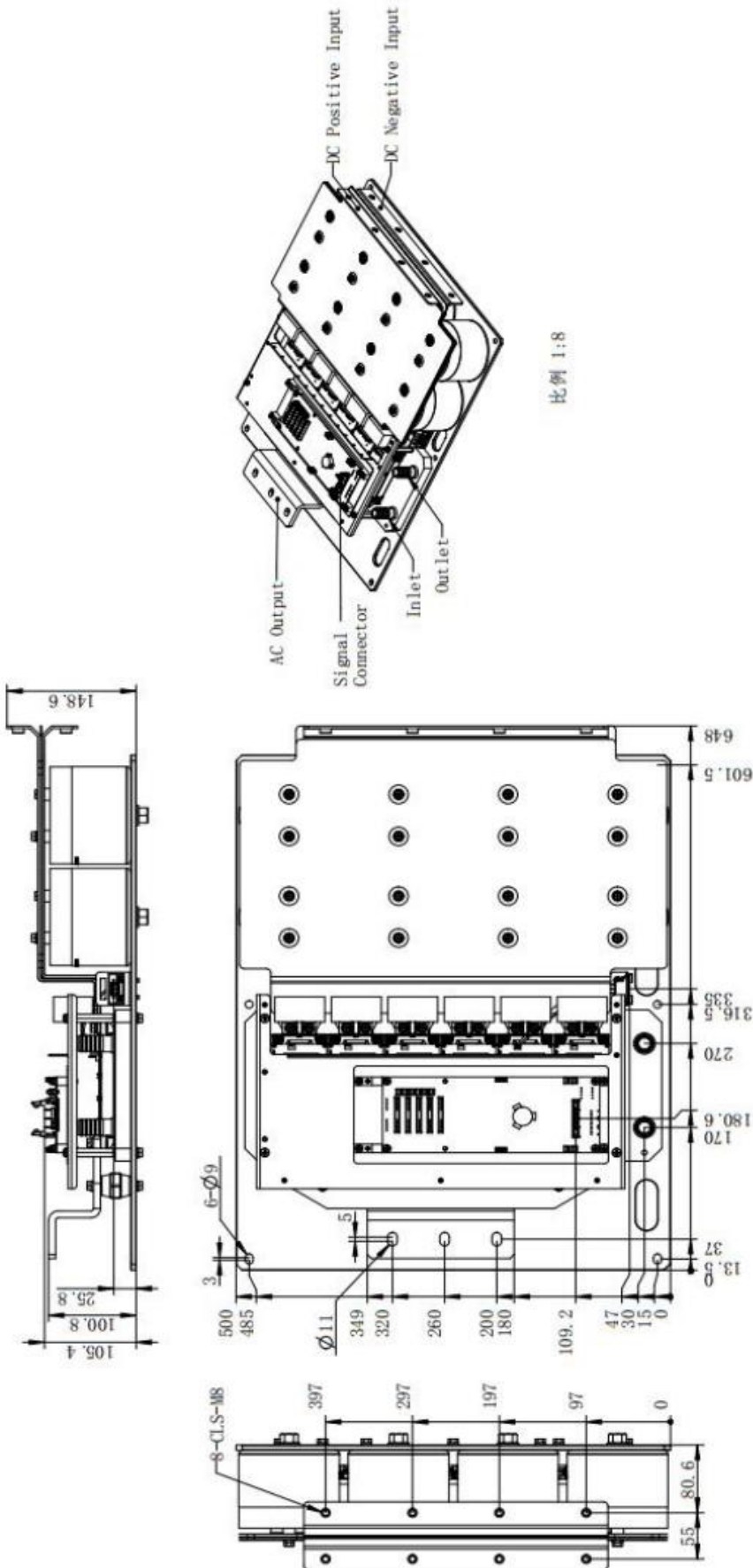
Symbol	Conditions	min	typ	max	Unit
Auxiliary power supply voltage		14.5	15	15.5	V
Auxiliary power requirement			50		W
Auxiliary power supply interface type		Snap-in Terminal			
Auxiliary power supply undervoltage threshold			12		V
PWM signal high level threshold			8.3		V
PWM signal low level threshold			4.8		V
Fault output current capability	Fault condition			500	mA
Fault hold time			40		ms

Controller Signal Connector Pin Definitions

Pin	Name	Function	Pin	Name	Function
1	1 to 20	Connected to pin 20	2	15V	15V supply signal
3	15V	15V supply signal	4	15V	15V supply signal
5	GND	Primary side ground	6	FAULT	Fault summary output signal
7	GND	Primary side ground	8	GND	Primary side ground
9	GND	Primary side ground	10	BOT-IN	BOT PWM input signal
11	GND	Primary side ground	12	NTC1-1	External NTC1-pin1
13	NTC1-2	External NTC1-pin2	14	FAULT	Fault summary output signal
15	GND	Primary side ground	16	TOP-IN	TOP PWM input signal
17	GND	Primary side ground	18	NTC2-1	External NTC2-pin1
19	NTC2-2	External NTC2-pin2	20	1 to 20	Connected to pin 1

Dimensions

标记	更改描述	更改日期	签字



比例 1:8

		项目	材料
设计	审核	校对	会签
标准	批准		
表面	处理		

名称	Module 648*500*148.6
图框	A3
比例	1:5
重量	Kg
版本	V1.0
页码	1 / 1

公差	0.1
公差	0.1
公差	0.2
公差	0.3
公差	0.5
公差	0.8

Safety instructions

1. The data contained in this product datasheet is intended for technically trained engineers only. The suitability of this product for your specific application scenario and the completeness of the information provided must be fully evaluated before implementation.
2. This product must not be operated beyond the absolute maximum ratings listed in this specification under any circumstances. Operating the device at multiple maximum rating thresholds simultaneously is strictly prohibited.
3. External cooling and dissipation requirements indicated in this specification must be strictly enforced to prevent performance derating or catastrophic thermal failure.
4. For applications in safety-critical systems (such as aviation, medical, or life-support systems), please contact Firststack to establish dedicated quality agreements and risk assessments before ordering.

Legal disclaimer

This manual gives a detailed introduction about the product, but cannot promise to provide specific parameters. No warranty or guarantee, express or implied, is given herein as to the delivery, performance or applicability of the product.

Firststack reserves the right to modify technical data and product specifications at any time without prior notice. Firststack's general payment terms and conditions apply.

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