

2 LEG 2 LEVEL INVETER STACK 2.4KW



2 LEG 2 LEVEL INVETER
STACK 2.4KW

FEATURES

- IGBT , SiC and MOSFET Switches Option
- 350V DC Link, 2.4 kW Output Power
- Direct Interface with Gate Drive Modules
- Simple & Cost-Effective Solution
- DC Link Over Voltage Protection
- DC Link Safety Discharge & Indication
- TB & Banana Input, Output Connectors
- Test Points for Easy Testing
-

DESCRIPTION

- The DPM-Series of Power Modules are simple and modular blocks that could be used for fastprototyping and validation of popular power converter circuits such as, Single & Multi-PhaseInverters, Buck/Boost Converters, Single & Multi-Phase Active Rectifiers and Modular Multi- Level Converters etc. It can cover wide range of applications such as Variable FrequencyDrives (VFDs), BLDC Motor Drives, PV inverters and converters in research and educationalenvironments.
- User can connect Input and output terminals using pluggable terminal blocks or banana connectors, providing ease of use in labs. Test points are also available for pain free testing. DPM Power Modules are fully compatible with gate drive modules made by VP Electronics. In addition, custom solutions could be provided upon request.

APPLICATIONS

- ❖ Single Phase AC Motor Driver
- ❖ Brushed DC Motor Driver
- ❖ Single Phase Inverter
- ❖ Interleaved Boost Converter

Characteristics	Test Conditions/ Note	MOSFET	IGBT	Unit
DC Input Voltage	25 °C	350	350	V _{DC}
Over-Voltage Protection	Clamping Voltage	370	370	V _{DC}
Output Current	@ 2kHz, TA 25C	8.3	9.4	A _{RMS}
Output Power	@ 2kHz, 25C	1.8	2	kW
Overload Capacity	@ 2kHz, 25C, 10s	100	100	%
Gate Drive Voltage	Recommended	+15/0	+15/-8	V
Gate Drive Resistance	Minimum	4.7	10	Ω
Switching Frequency	Maximum	100	30	kHz
Dead-time	Minimum	1		μs
Short Circuit Withstand Time	Maximum	0	10	μs
Recommended Gate Driver		VP005837	VP00583	-
Weight			530	g

PIN DISCRIPTION

CONNECTOR	CONNECTOR DISCRPTION	NAME
X5	-DC & -DC	DC LINK
X10	T1 & T2	OUTPUT
X6	L & N	INPUT
X1 & X2	DRIVER1	
X4 & X3	DRIVER2	

2 LEG 2 LEVEL INVETER STACK 2.4KW



2 LEG 2 LEVEL INVETER STACK 2.4KW

SAFETY NOTICE!

ATTENTION PLEASE! THIS DEVICE IS ESD SENSITIVE AND NEEDS TO BE HANDLED WITH CARE. HIGH VOLTAGE CONDITION MAY OCCUR DURING OPERATION OF THE DEVICE, AND HENCE USER IS SOLELY RESPONSIBLE OF EQUIPMENT AND PERSONNEL SAFETY. VP ELECTRONICS SHALL NOT BE HOLD LIABLE FOR ANY DAMAGE TO PERSONNEL AND/OR PROPERTIES AS A RESULT OF USING THIS DEVICE. USER MUST TAKE ADEQUATE STEPS TO ENSURE ELECTRICAL AND MECHANICAL SAFETY OF THE DEVICE IN USE.

WARNING AND DISCLAIMER!

ATTENTION PLEASE! THE INFORMATION HEREIN IS GIVEN TO DESCRIBE CERTAIN COMPONENTS AND SHALL NOT BE CONSIDERED AS A GUARANTEE OF CHARACTERISTICS. TERMS OF DELIVERY AND RIGHTS TO TECHNICAL CHANGE RESERVED. WE HEREBY DISCLAIM ANY AND ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTIES OF NON-INFRINGEMENT, REGARDING CIRCUITS, DESCRIPTIONS AND CHARTS STATED HEREIN. CUSTOMER IS SOLELY RESPONSIBLE OF PROPER AND LEGAL USE OF ALL PRODUCTS OFFERED BY VPELECTRONICS.

For Further information or purchasing, please go to our web site:
www.vpelectronics.net

Phone: +91-9310120246

WhatsApp: +91-8851410806

E-Mail: info@vpelectronics.net

Data subject to change. Copyright © 2018 VP Electronics. All rights reserved.

 **VP Electronics**
Total Solution of Power Electronics