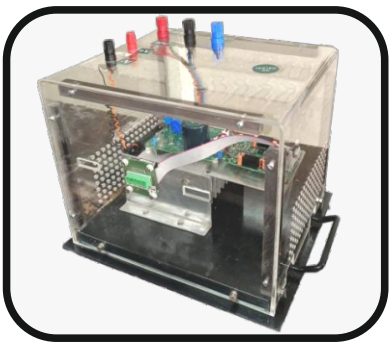
1 PHASE 1 LEG BUCK/BOOST STACK



FEATURES

- IGBT and MOSFET Switches Option
- 350V DC Link, 1.2kW 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 fast prototyping and validation of popular power converter circuits such as, Single & Multi-Phase Inverters, Buck/Boost Converters, Single & Multi-Phase Active Rectifiers and Modular Multi-Level Converters etc. It can cover wide range of applications such as Variable Frequency Drives (VFDs), BLDC Motor Drives, PV inverters and converters in research and educational environments.

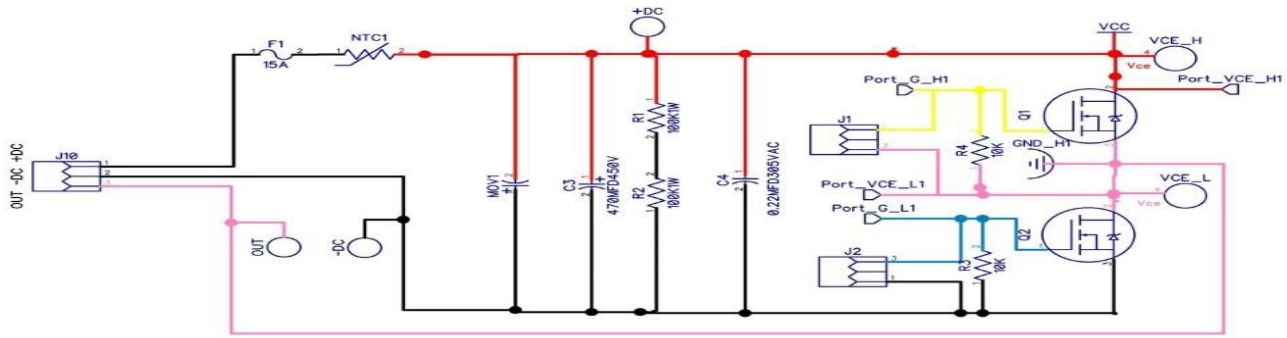
User can connect Input and output terminals using pluggable terminal blocks or banana connectors, providing ease of use in labs. Test points are also available for pain free testing.DPM Power Modules are fully compatible with gate drive modules made by VP Electronics. In addition, custom solutions could be provided upon request.

APPLICATIONS

- Buck/BoostConverters
- PFC Active Rectifier
- Resonant Converters
- MPPT Converters

INNOVATE POWER

SCHEMATIC DIAGRAM

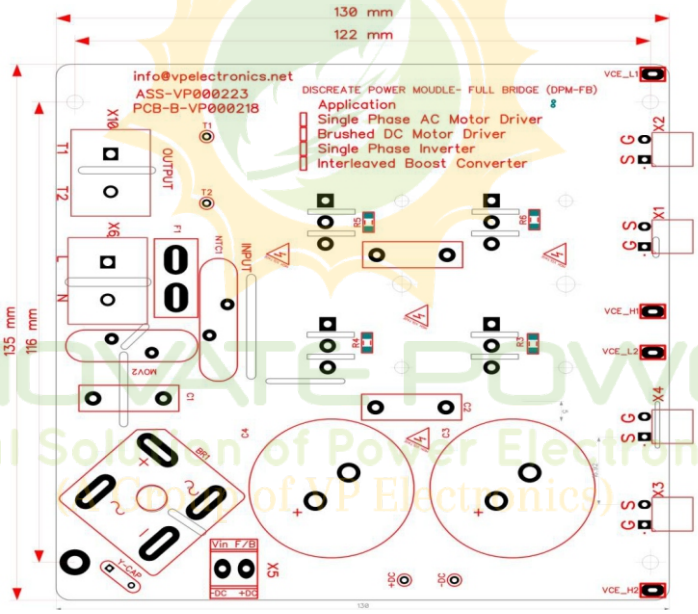


PIN DESCRIPTION

CONNECTOR	CONNECTOR DESCRIPTION	NAME
J10	-DC & -DC	DC LINK
J10	OUT	OUTPUT
J1&J2	DRIVER1	

POWER STACK GENERAL SPECIFICATIONS

Characteristics	Test Conditions/ Note	MOSFET	IGBT	UNIT
DC Input Voltage	25 °C	350	350	VDC
Over-Voltage Protection	Clamping Voltage	370	370	VDC
Output Current	@2kHz,TA25C	8.3	9.4	ARMS
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	VP005837	-
Weight			530	g



INNOVATE POWER
Total Solution of Power Electronics
(Division of VP Electronics)

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 SAFETLY OF THE DEVICE IN USE.

WARNING AND DISCLAIMER!

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Phone: +91-9310120246
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