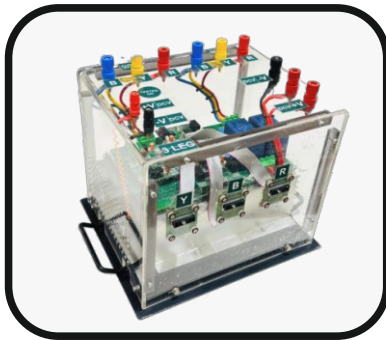




3 LEG 2 LEVEL INVERTER STACK 6.4KW ES



FEATURES

- SiC , IGBT and MOSFET Switches Option
- Built-in 3 Phase Rectifier
- 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

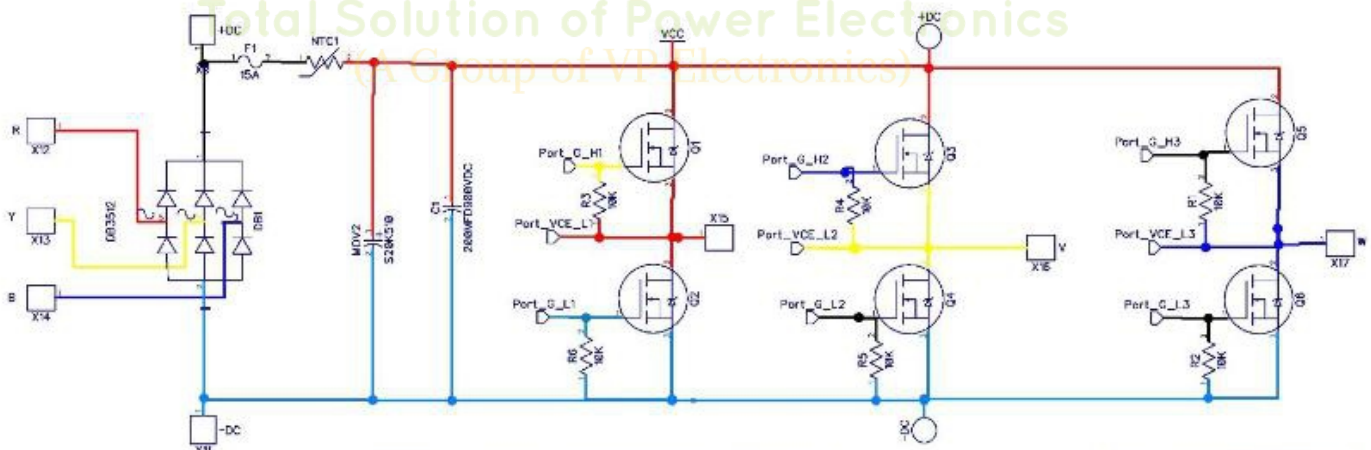
The DPM-Series of Power Modules are simple and modular blocks that could be used for fast prototyping and validation of popular power converter circuits such as, Single & Multi-Phase Inverters, Buck/Boost Converters, Single & Multi-Phase Active Rectifiers and Modular Multi-Level Converters etc. It can 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 up on request.

APPLICATIONS

- ❖ 3 Phase AC Motor Drive
- ❖ 3 Phase BLDC Motor Drive
- ❖ PV Inverters
- ❖ Multi-channel PFC Boost Converter

SCHEMATIC DIAGRAM

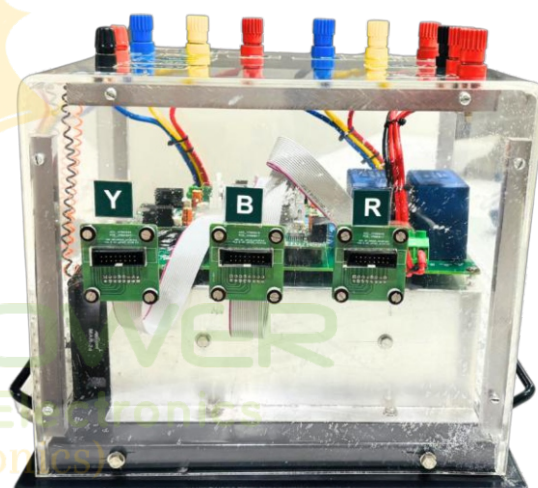
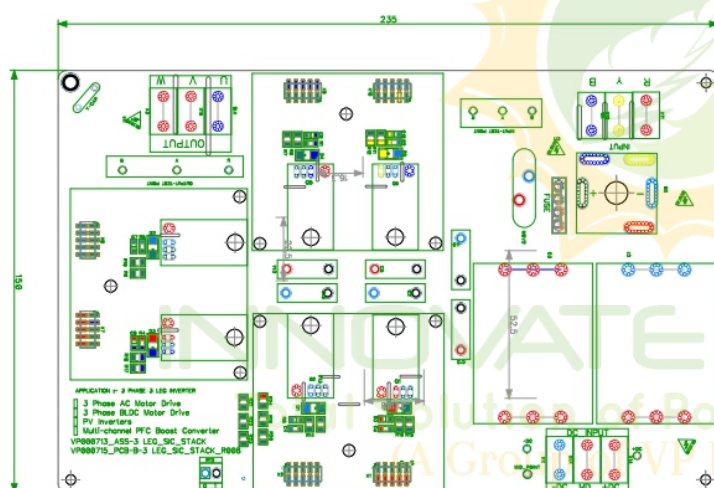


PIN DESCRIPTION

CONNECTOR	CONNECTOR DESCRIPTION
X3	-DC & -DC
X6	U , V, W OUTPUT
X4	R, Y, B INPUT
X9& X10	DRIVER1
X2&J1	DRIVER2
X1 & X2	DRIVER3

POWER STACK GENERAL SPECIFICATIONS

Characteristics	Test condition	Sic	Unit
DC Input Voltage	25 °C	600	VDC
AC Input Voltage	Single or 3 phase , 50Hz	420	VAC
Over-Voltage Protection	Clamping Voltage	735	VDC
Output Current	@10kHz ,TA25°C ,DC Input	9.5	ARMS
Output Power	@10kHz, 25°C, 600V DC Input	6.1	kW
Output Power	@ 10 kHz, 25°C, 420V AC Input	3.1	kW
Overload Capacity	@2kHz, 25°C,10s	100	%
Gate Drive Voltage	Recommended	+15/-4	V
Gate Drive Resistance	Minimum	3	Ω
Switching Frequency	Maximum	100	kHz
Dead-time	Minimum	0.5	μs
Short Circuit Withstand Time	Maximum	10	μs
Recommended Gate Driver	VP005838		
Recommended Sic Device	ACM020P120Q		
Weight	870 gm		



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!

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