

PDM15 - Power Distribution Module Part Number #14104

Basic Specifications

Inputs

16 x switch inputs, 0 to 51 V, res 0.2 V

Outputs

- 8 x 20 A outputs—20 A continuous, 115 A transient (typical)
- 7 x 8 A outputs—8 A continuous, 60 A transient (typical)

Communications

• 1 x CAN

Operating Voltage

• 30 V max

Physical

- Connectors
 - 1 x 34 pin waterproof connector
 - 1 x 26 pin waterproof connector
 - 1 x M6 stud (battery)
- Case size 107.5 x 127.5 x 38.7 mm
- Weight 260 gram

Other Information

Compatibility

- Any MoTeC Dash Logger: SDL, ADL2, ADL3, ACL
- 'Hundred series' ECUs: M400, M600, M800, M880

PC Requirements

- Windows XP or later
- USB port

Accessories

• MoTeC UTC #61059 (Note: UTC is required, not compatible with MoTeC CAN cable)

User Manual and Software

 Latest releases available from www.motec.com/downloads



MoTeC's 15 output **Power Distribution Module (PDM15)** is designed to provide electronically switched power to the various electrical systems in the vehicle such as motors, lights and solenoids, and electronic devices such as ECUs and data acquisition systems.

The module replaces conventional relays, fuses and circuit breakers to simplify wiring and switch requirements, while increasing reliability.

Features

- Each output is over-current, short circuit and thermal overload protected
- Outputs programmable in 1 A steps and controllable via a combination of switch inputs, CAN messages and logic functions
- Performing up to 200 logic operations and functions that can be used to selectively turn off systems.
- Providing full diagnostic information via CAN

Software

- Used for:
 - Configuration of all inputs, outputs, CAN messages and conditions
 - Monitoring of all channel values
 - Output testing
 - Firmware updating

MoTeC Pty. Ltd, 121 Merrindale Drive, Croydon South, Victoria 3136, Australia www.motec.com, Ph 61 3 9761 5050, Fax 61 3 9761 5051, support@motec.com.au Product specifications are subject to change



Dimensions and Mounting



Wiring



To communicate to the PC, a CAN connector must be wired into the CAN bus.

To connect the PDM directly to the CAN connector, wire according to the following table:

PDM		CAN Connector	
Pin	Name	Pin	Wire
B25	CAN Lo	4	Green
B26	CAN Hi	5	White

Important

The PDM is wired onto the CAN bus. Please ensure wiring is according to CAN requirements and the CAN bus has at least one 100R terminating resistor.

More information can be found in the user manual at www.motec.com/downloads



Connectors and Pinout

Connector A	
-------------	--

34 pin waterproof connector

Mating connector #65044		
Pin	Name	Function
A_1	OUT1	20 A Output 1 (with A10)
A_2	OUT9	8 A Output 9
A_3	OUT2	20 A Output 2 (with A12)
A_4	OUT10	8 A Output 10
A_5	OUT3	20 A Output 3 (with A14)
A_6	OUT11	8 A Output 11
A_7	OUT4	20 A Output 4 (with A16)
A_8	OUT12	8 A Output 12
A_9	OUT5	20 A Output 5 (with A17)
A_10	OUT1	20 A Output 1 (with A1)
A_11	OUT13	8 A Output 13
A_12	OUT2	20 A Output 2 (with A3)
A_13	OUT14	8 A Output 14
A_14	OUT3	20 A Output 3 (with A5)
A_15	OUT15	8 A Output 15
A_16	OUT4	20 A Output 4 (with A7)
A_17	OUT5	20 A Output 5 (with A9)
A_18		Not used
A_19	DIG2	Digital/Switch Input 2
A_20		Not used
A_21	DIG4	Digital/Switch Input 4
A_22		Not used
A_23	DIG7	Digital/Switch Input 7
A_24		Not used
A_25		Not used
A_26	VBATT-	Battery Negative
A_27	DIG1	Digital/Switch Input 1
A_28	GND	0 V
A_29	DIG3	Digital/Switch Input 3
A_30	DIG5	Digital/Switch Input 5
A_31	DIG6	Digital/Switch Input 6
A_32	DIG8	Digital/Switch Input 8
A_33	DIG9	Digital/Switch Input 9
A_34	DIG10	Digital/Switch Input 10

Conne	Connector B	
26 pin waterproof connector		
Mating connector #65045		
Pin	Name	Function
B_1		Not used
B_2		Not used
B_3	OUT6	20 A Output 6 (with B9)
B_4		Not used
B_5	OUT7	20 A Output 7 (with B11)
B_6		Not used
B_7	OUT8	20 A Output 8 (with B13)
B_8		Not used
B_9	OUT6	20 A Output 6 (with B3)
B_10		Not used
B_11	OUT7	20 A Output 7 (with B5)
B_12		Not used
B_13	OUT8	20 A Output 8 (with B7)
B_14		Not used
B_15	DIG13	Digital/Switch Input 13
B_16		Not used
B_17	DIG15	Digital/Switch Input 15
B_18	VBATT-	Battery Negative
B_19		Not used
B_20	DIG11	Digital/Switch Input 11
B_21	DIG12	Digital/Switch Input 12
B_22	GND	0 V
B_23	DIG14	Digital/Switch Input 14
B_24	DIG16	Digital/Switch Input 16
B_25	CANLO	CAN Low
B_26	CANHI	CAN High

Connector C				
M6 stud				
Mating: eyelet and M6 nut				
Pin	Name	Function		