Turntide 48V Lightweight e-Fan Range

High performing low voltage electric fans, delivering class leading airflow per square centimetre.

The fans are light weight, delivering full performance without derating at high temperatures, which make them ideal for demanding, high performance applications like sports cars, heavy commercial vehicles and construction machinery.



Features

- Long life, brushless, sensorless motor
- Environmentally sealed (IP67)
- Fully reversible
- Advanced integrated motor controller
- Best in class performance
- Thermal overload protection
- Voltage transient protection
- CAN controllable and diagnostics

Applications



TURNTIDE ELECTRIFICATION

Turntide Technologies designs and manufactures breakthrough electric motors, power electronics and energy storage solutions that optimize performance, reliability, and efficiency in all things that move.

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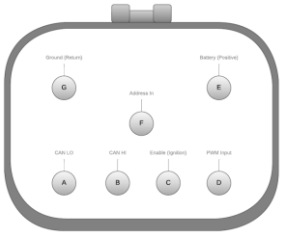
Details are correct at time of publishing

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V4.0 – 09/09/2024

Specification

Key Features			
Model	**10″**	**11″**	**15″**
Operational Voltage Range (V)	• 36 to 54	• 36 to 54	• 36 to 54
Maximum Input Power (W)	• ~1700	• ~800	• ~600
Best Efficiency Point (m^3/h)	• 949.4 (at 3000rpm)	• 2102.5 (at 5500rpm)	• 3764 (at 4350rpm)
Environmental			
Model	**10″**	**11″**	**15″**
Operational Temp Range (˚C)	• -30 to +75	• -30 to +75	• -30 to +75
Storage Temp Range (˚C)	• -40 to +85	• -40 to +85	• -40 to +85
IP Rating	• IP67	• IP67	• IP67
IO			
Fan Connector	• Male 7-way Delphi 150/480 Sealed Connector *(pn 12052200)*	**Mating Harness**	• Pn 12059472

Pin-out†



Pin	Description
A	CAN LO
B	CAN HI
C	Enable (Ignition)
D	PWM Input
E	Battery (Positive)
F	Address In
G	Ground (Return)

† - Represents the connector on the fan

Mass, Dimensions and Drawings			
Model	**10″**	**11″**	**15″**
Weight (g)	• 2000	• 2200	• 4000
Length (mm)	• 318	• 344	• 442
Height (mm)	• 318	• 344	• 442
Depth (mm)	• 92.5 (43.3 Shroud edge)	• 92.5 (50 Shroud edge)	• 104.5 (60.5 Shroud edge)
Additional Information			
Example Applications			
• Main engine cooling • Oil cooling • CAC/Intercooler cooling	• Secondary cooling • Hydraulic cooling	• Transmission cooling • HVAC cooling	• ERG cooling • Electronic cooling

For more information on this product or Turntide's range of inverters, motors, batteries, pumps and fans, please visit our web-site or contact our team of experts at electrificationsales@turntide.com.