

RACECARD

2019 MONACO E-PRIX



**SATURDAY
MAY 11 2019**

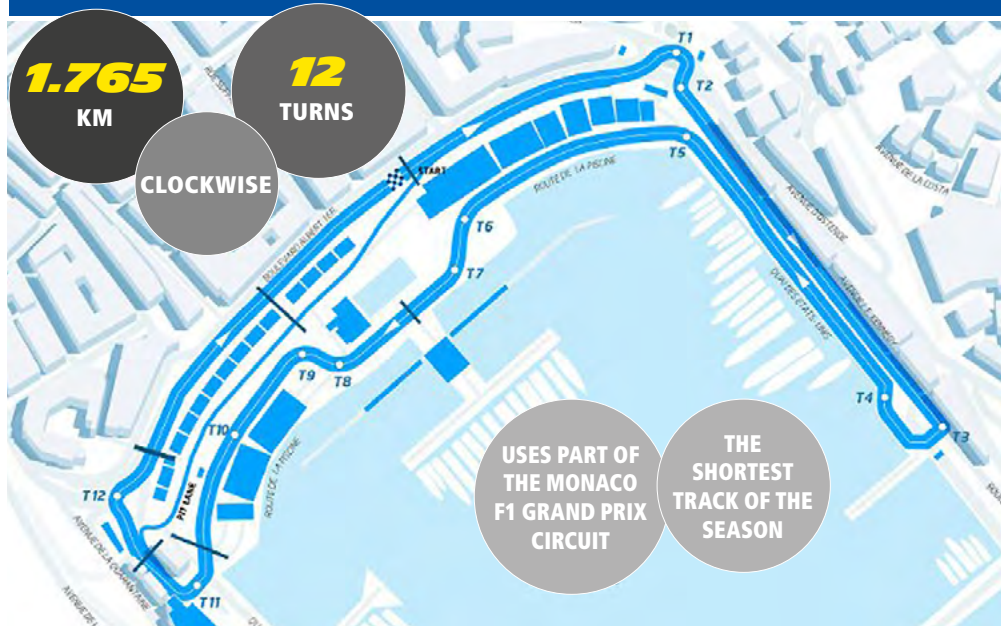
ROUND 9
2018/2019 ABB
FIA FORMULA E
CHAMPIONSHIP

ROUND 7
JAGUAR I-PACE
ETROPHY

3RD EDITION



THE CIRCUIT



THE 2017 MONACO E-PRIX

WINNER:

Sébastien Buemi (Renault e.dams /Michelin), 51 laps

POLE POSITION:

Sébastien Buemi (Renault e.dams /Michelin), 53.313s

FASTEST RACE LAP:

Sam Bird (DS Virgin Racing/Michelin), 53.822s



Pole-sitter Sébastien Buemi led from start to finish

Nick Heidfeld came third to add to his previous F1 podium finish in Monaco (2005)

PAST MONACO E-PRIX WINNERS

2014/2015
Sébastien Buemi
(Renault e.dams/Michelin)

2016/2017
Sébastien Buemi
(Renault e.dams/Michelin)



TIMETABLE

SATURDAY, MAY 11

7:30 am	45 minutes	Free Practice 1 (Formula E)
8:25am	30 minutes	Free Practice (I-Pace eTrophy)
10:00am	30 minutes	Free Practice 2 (Formula E)
11:45am	30 minutes	Qualifying (Formula E)
12:30pm	20 minutes	Super Pole (Formula E)
1:45pm	30 minutes	Qualifying (I-Pace eTrophy)
4:33pm	45 minutes + 1 lap	Monaco E-Prix
5:30pm		Formula E podium ceremony
6:15pm	25 minutes + 1 lap	I-Pace eTrophy race
6:50pm		I-Pace eTrophy podium ceremony

LOCAL TIME



MONACO AND MOTORSPORT

- » The inaugural Rallye Monte-Carlo was organised in 1911
- » The ACM (Automobile Club de Monaco) was founded in 1925



- » The first ever Monaco Grand Prix was held in 1929
- » The Principality of Monaco has hosted rounds of the Formula 1 and World Rally Championships since their creation in 1950 and 1973 respectively
- » Louis Chiron (F1, rally) and Daniel Elena (9 WRC titles) are Monaco's most successful motorsport competitors

MONACO AND RENEWABLE ENERGY

- » The Automobile Club de Monaco organises the annual eRallye Monte-Carlo for emissions-free vehicles
- » Monaco hosts the annual EVER Conference which covers the topic of green vehicles (this year: May 8-10)
- » The first electric polar exploration vehicle, the Venturi Antarctica, was unveiled in Monaco
- » More than three percent of vehicles on the road in Monaco are either electric or hybrid



MONACO

- » The Principality of Monaco's Mediterranean coastline is 3.829km long
- » Monaco is the world's second-smallest independent state after Vatican City State
- » The population of Monaco is approximately 38,000, making it the world's most densely populated state (19,000 inhabitants/sq.km)
- » The Principality of Monaco comprises eight districts, including Monte Carlo
- » Monaco's currency is the Euro, even though it isn't part of the European Union



MICHELIN GREEN GUIDE

Discover the delights of the French Riviera and the Principality of Monaco with the Michelin Green Guide to the French Riviera/Côte d'Azur

LOOKING FOR A GOOD RESTAURANT?



SERGE GRISIN
Formula E Programme
Manager, Michelin Motorsport

**"AT 1.765KM,
IT IS THIS SEASON'S
SHORTEST TRACK
AND THE CARS LAP
IT IN LESS THAN
A MINUTE"**

"As in 2015 and 2017, the 2019 Monaco E-Prix will use the harbourfront part of the Formula 1 circuit.

At 1.765km, it is this season's shortest track and the cars lap it in less than a minute. It's always hard to overtake at Monaco, so a good qualifying result is primordial.

The track surface gives average grip, especially as there isn't a shakedown session on Friday. As a result, rubber only starts to get laid down during Free Practice 1. It isn't a particularly hard-wearing track for tyres."

MICHELIN AND THE 2019 MONACO E-PRIX

TECHNICAL DATA

MICHELIN PILOT SPORT

FRONT: 245/40R18
REAR: 305/40R18

Developed specifically for the FIA Formula E Championship

The first 18-inch single-seater racing tyre

The first single-seater racing tyre capable of competing in dry and wet conditions

The first tyre capable of lasting the full race distance



Size (front/rear)	24/64-18 / 27/68-18
Width (front/rear)	245mm / 305mm
Tread width (front/rear)	240mm / 270mm
Side wall height (front/rear)	98mm / 122mm (i.e. 40 percent of tread width)
Rim diameter	18 inches
Weight (front/rear)	8kg / 9.9kg
Type of tread pattern	Asymmetric, non-directional
Usage	Circuits, street circuits, asphalt, concrete, wet or dry weather
Number of tyres taken to each race	176 (22 cars x 8 tyres)
Weight saving (compared with the MICHELIN Pilot Sport EV)	Front: 2kg Rear: 2.5kg



MICHELIN

MICHELIN PILOT SPORT

THE REVOLUTIONARY NEW
MICHELIN PILOT SPORT:
LIGHTER AND MORE ENERGY-
EFFICIENT THAN EVER

A REVOLUTIONARY RACING TYRE, IN MORE WAYS THAN ONE!

Developed specifically for the world's first all-electric single-seater motor racing championship, the new MICHELIN Pilot Sport is an exceptionally versatile tyre that was designed by Michelin Motorsport's engineers to cover the entire race day (free practice, qualifying, race), whatever the weather, as required by the technical regulations that govern the series.

Another exceptional characteristic of the tyre is its size. The MICHELIN Pilot Sport was effectively the first ever single-seater tyre to feature an interior diameter of 18 inches, a disruptive concept put forward by Michelin Motorsport and approved by the FIA (Fédération Internationale Automobile). The fact that 18-inch wheels have become a common

feature of road cars enables Michelin Motorsport's engineers and chemists to carry over the lessons they learn on the racetrack to everyday tyres, in keeping with the firm's 'track to street' policy.

The MICHELIN Pilot Sport (front: 245/40 R 18 / rear: 305/40 R 18) is tall and narrow in the interests of energy efficiency, which equates to longer range. Its low sidewalls also flex less, resulting in the generation of less heat, which in turn means reduced energy consumption, a valuable benefit for Formula E's latest-generation 'Gen2' Spark SRT 05Es.

The MICHELIN Pilot Sport is a connected tyre, too, thanks to an embedded RFID chip which facilitates tracking, from production through to recycling.



MICHELIN PILOT SPORT: THE WINNING TYRE RANGE



For track use

For road and occasional track use

For road use

For road use

FRONT

Size

24/64-18 equivalent to 245/40R18

Side wall height

40% - 98mm



Usage

Wet or dry weather

Type of tread pattern

Asymmetric, non-directional

Rim diameter

18 inches



REAR

Size

27/68-18 equivalent to 305/40R18

Side wall height

40% - 122mm



ENTRY LIST 2019 MONACO E-PRIX

ENVISION VIRGIN RACING AUDI E-TRON FE05



N°2 SAM BIRD (GBR)

Victory: 8 Fastest race laps: 5
Pole position: 5 Podium: 17



N°4 ROBIN FRIJNS (NLD)

Victory: 1 Fastest race laps: 0
Pole position: 0 Podium: 4

PANASONIC JAGUAR RACING JAGUAR I – TYPE III



N°3 ALEX LYNN (GBR)

Victory: 0 Fastest race laps: 0
Pole position: 1 Podium: 0



N°20 MITCH EVANS (NZL)

Victoire : 1 Fastest race laps: 1
Pole position: 1 Podium: 2

HWA RACELAB VENTURI VFE05

ROOKIE



N°5 STOFFEL VANDORNE (BEL)

Victory: 0 Fastest race laps: 0
Pole position: 1 Podium: 1

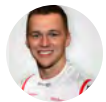
ROOKIE



N°17 GARY PAFFETT (GBR)

Victory: 0 Fastest race laps: 0
Pole position: 0 Podium: 0

GEOX DRAGON PENSKE EV-3



N°6 MAX GÜNTHER (DEU)

Victory: 0 Fastest race laps: 0
Pole position: 0 Podium: 0



N°7 JOSE-MARIA LÓPEZ (ARG)

Victoire : 0 Fastest race laps: 1
Pole position: 0 Podium: 2

NIO FORMULA E TEAM NIO SPORT 004



N°8 TOM DILLMANN (FRA)

Victory: 0 Fastest race laps: 1
Pole position: 0 Podium: 0



N°16 OLIVER TURVEY (GBR)

Victoires : 0 Fastest race laps: 0
Pole position: 1 Podium: 1

VENTURI FORMULA E TEAM VENTURI FVE05

ROOKIE



N°19 FELIPE MASSA (BRA)

Victory: 0 Fastest race laps: 0
Pole position: 0 Podium: 0



N°48 EDOARDO MORTARA (CHE)

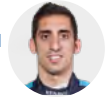
Victory: 1 Fastest race laps: 0
Pole position: 0 Podium: 3

NISSAN E.DAMS NISSAN IM01



N°22 OLIVER ROWLAND (GBR)

Victory: 0 Fastest race laps: 0
Pole position: 1 Podium: 1



N°23 SÉBASTIEN BUEMI (CHE)

Victory: 12 Fastest race laps: 9
Pole position: 12 Podium: 21

DS TECHEETAH DS E-TENSE FE19



N°25 JEAN-ERIC VERGNE (FRA)

Victory: 6 Fastest race laps: 3
Pole position: 8 Podium : 16



N°36 ANDRÉ LOTTERER (DEU)

Victory: 0 Fastest race laps: 3
Pole position: 1 Podium: 4

BMW I ANDRETTI MOTORSPORT BMW IFE.18

ROOKIE



N°27 ALEXANDER SIMS (GBR)

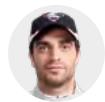
Victory: 0 Fastest race laps: 0
Pole position: 0 Podium: 0



N°28 ANTONIO FELIX DA COSTA (PRT)

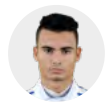
Victory: 2 Fastest race laps: 0
Pole position: 1 Podium: 4

MAHINDRA RACING MAHINDRA M5ELECTRO



N°64 JÉRÔME D'AMBROSIO (BEL)

Victory: 3 Fastest race laps: 1
Pole position: 2 Podium: 8



ROOKIE

N°94 PASCAL WEHRLEIN (DEU)

Victory: 0 Fastest race laps: 1
Pole position: 0 Podium: 1

AUDI SPORT ABT SCHAEFFLER FORMULA E TEAM AUDI E-TRON FE05



N°11 LUCAS DI GRASSI (BRA)

Victory: 9 Fastest race laps: 4
Pole position: 3 Podium: 28



N°66 DANIEL ABT (DEU)

Victory: 2 Fastest race laps: 6
Pole position: 2 Podium: 10






FIA FORMULA E

DRIVERS STANDINGS

															TOT.
		SAU 15/12	MAR 12/01	CHL 26/01	MEX 16/02	HKG 10/03	CHN 23/03	ITA 13/04	FRA 27/04	MCO 11/05	DEU 25/05	CHE 22/06	USA 13/07	USA 14/07	
1	 4 R. FRIJNS (NLD) ENVISION VIRGIN RACING	0	18	10	0	15	0	12	26	-	-	-	-	-	81
2	 36 A. LOTTERER (DEU) DS TECHEETAH FORMULA E TEAM	11	8	0	10	0	12	21	18	-	-	-	-	-	80
3	 28 A. DA COSTA (PRT) BMW I ANDRETTI MOTORSPORT	28	0	0	18	1	15	2	6	-	-	-	-	-	70
4	 11 L. DI GRASSI (BRA) AUDI SPORT ABT SCHAEFFLER	2	7	0	25	18	0	6	12	-	-	-	-	-	70
5	 64 J. D'AMBROSIO (BEL) MAHINDRA RACING	15	25	1	12	0	8	4	0	-	-	-	-	-	65
6	 25 J.E. VERGNE (FRA) DS TECHEETAH FORMULA E TEAM	18	10	0	0	0	26	0	8	-	-	-	-	-	62
7	 20 M. EVANS (GBR) PANASONIC JAGUAR RACING	12	2	8	6	6	2	25	0	-	-	-	-	-	61
8	 66 D. ABT (DEU) AUDI SPORT ABT SCHAEFFLER	4	1	16	1	12	10	0	15	-	-	-	-	-	59
9	 2 S. BIRD (GBR) ENVISION VIRGIN RACING	0	18	25	2	9	0	0	0	-	-	-	-	-	54
10	 48 E. MORTARA (CHE) VENTURI FORMULA E TEAM	0	0	12	15	25	0	0	0	-	-	-	-	-	52
11	 94 P. WEHRLEIN (DEU) MAHINDRA RACING	-	0	18	12	0	6	1	1	-	-	-	-	-	38
12	 22 O. ROWLAND (GBR) NISSAN E.DAMS	6	0	0	0	0	21	8	3	-	-	-	-	-	38
13	 23 S. BUEMI (CHE) NISSAN E.DAMS	8	4	3	0	0	4	11	0	-	-	-	-	-	30
14	 5 S. VANDOORNE (BEL) HWA RACELAB	0	0	0	0	3	0	15	0	-	-	-	-	-	18
15	 27 A. SIMS (GBR) BMW I ANDRETTI MOTORSPORT	0	12	6	0	0	0	0	0	-	-	-	-	-	18
16	 19 F. MASSA (BRA) VENTURI FORMULA E TEAM	0	0	0	4	10	1	0	2	-	-	-	-	-	17
17	 6 M. GÜNTHER (DEU) GEOX DRAGON	0	0	0	-	-	-	0	10	-	-	-	-	-	10
18	 17 G. PAFFETT (GBR) HWA RACELAB	0	0	0	0	4	0	0	4	-	-	-	-	-	8
19	 16 O. TURVEY (GBR) NIO FORMULA E TEAM	0	0	4	0	2	0	0	0	-	-	-	-	-	6
20	 7 J.M. LÓPEZ (ARG) GEOX DRAGON	0	0	2	0	0	0	0	0	-	-	-	-	-	2
21	 3 N. PIQUET JR. (BRA) PANASONIC JAGUAR RACING	1	0	0	0	0	0	-	-	-	-	-	-	-	1
22	 8 T. DILLMANN (FRA) NIO FORMULA E TEAM	0	0	0	0	0	0	0	0	-	-	-	-	-	0
23	 3 A. LYNN (GBR) PANASONIC JAGUAR RACING	-	-	-	-	-	-	0	0	-	-	-	-	-	0
24	 6 F. NASR (BRA) GEOX DRAGON	-	-	-	0	0	0	-	-	-	-	-	-	-	0
25	 94 F. ROSENQVIST (SWE) MAHINDRA RACING	0	-	-	-	-	-	-	-	-	-	-	-	-	0

FIA FORMULA E

TEAMS' STANDINGS

		 SAU 15/12	 MAR 12/01	 CHL 26/01	 MEX 16/02	 HKG 10/03	 CHN 23/03	 ITA 13/04	 FRA 27/04	 MCO 11/05	 DEU 25/05	 CHE 22/06	 USA 13/07	 USA 14/07	TOT.
1	● DS TECHEETAH FORMULA E TEAM (CHN)	29	18	0	10	0	38	21	26	-	-	-	-	-	142
2	● ENVISION VIRGIN RACING (GBR)	0	36	35	2	24	0	12	26	-	-	-	-	-	135
3	● AUDI SPORT ABT SCHAEFFLER (DEU)	6	8	16	26	30	10	6	27	-	-	-	-	-	129
4	● MAHINDRA RACING (IND)	15	25	19	24	0	14	5	1	-	-	-	-	-	103
5	● BMW I ANDRETTI MOTORSPORT (USA)	28	12	6	18	1	15	2	6	-	-	-	-	-	88
6	● VENTURI FORMULA E TEAM (MCO)	0	0	12	19	35	1	0	2	-	-	-	-	-	69
7	● NISSAN E.DAMS (JPN)	14	4	3	0	0	25	19	3	-	-	-	-	-	68
8	● PANASONIC JAGUAR RACING (GBR)	13	2	8	6	6	2	25	0	-	-	-	-	-	62
9	● HWA RACELAB (DEU)	0	0	0	0	7	0	15	4	-	-	-	-	-	26
10	▲ GEOX DRAGON (USA)	0	0	2	0	0	0	0	10	-	-	-	-	-	12
11	▼ NIO FORMULA E TEAM (GBR)	0	0	4	0	2	0	0	0	-	-	-	-	-	6

REGULATIONS

2018/2019 ABB FIA FORMULA E CHAMPIONSHIP

CARS (SINGLE-SEATERS)

- » **Spark STR-05e / chassis:** Dallara / battery: McLaren Applied Technologies
- » **Maximum length:** 5,200mm,
- » **Maximum width:** 1,800mm,
- » **Maximum height:** 1,250mm
- » **Minimum weight:** 900kg, including driver and battery/capacitor (385kg)
- » **Maximum power, electric powertrain:** 250kW (335hp) for free practice and qualifying, 200kW (270hp) during races.
- » 2 MGUs can be used
- » **Allocation per race number:** 2 electric motors, 2 gearboxes, 2 inverters and 1 battery pack for the season

TYRES

- » A single type of tyre (pattern and construction)
- » No mid-race tyre changes
- » 4 new front tyres and 4 new rear tyres per driver per event
- » Can be inflated using air only
- » Minimum tyre pressure: 1.3 & 1.6 bar (measured at the end of races)
- » Tyre warmers not authorised

EVENT FORMATS

- » A **Shakedown** session of a maximum duration of 30 minutes may be organised the day before the race. Power is restricted to 110kW. A maximum of six laps per car
- » **Practice:** Two practice sessions (45 and 30 minutes) in the course of the morning of Race Day. Maximum power: 250kW
- » **Qualifying:** The drivers are divided into four

groups as a function of their championship positions (or of the previous championship order in the case of the season's first race). Each driver has six minutes and up to two flying laps to post a qualifying time. The six fastest drivers go on to take part in the Super Pole shootout. Maximum power: 250kW

- » **Super Pole:** Start order is based on the times posted in qualifying, with the 'slowest driver' to lap first, etc. One flying lap only
- » **Grid:** The six places at the front of the grid are reserved for the drivers who take part in the Super Pole session
- » **Race:** Standing start. Maximum duration: 45 minutes + 1 lap. Use of two power outputs mandatory: Normal Mode (200kW / regeneration: 250kW) and Attack Mode (225 kW / regeneration: 250kW) which must be activated twice per race, for a period of four minutes. The car's halo head protection device lights up (Blue) when the Attack Mode is activated
- » **Attack Mode:** For the 2018/2019 season, drivers have two power options during the race: Normal Mode (200kW) and Attack Mode (225kW). Attack Mode must be activated twice per race. To trigger it, the driver must run off the ideal racing line through the corner specified for this purpose by the race organiser, a little like in Mario Kart. Attack Mode is activated for four minutes. The car's halo head protection device lights up when it is activated
- » **FanBoost:** A temporary 100kJ power boost (240kW-250kW) for five drivers chosen by a fan vote. To be activated once when in Attack Mode. The car's halo head protection device lights up (Magenta)



POINTS-SCORING SYSTEM RACE

1st: 25 points / 2nd: 18 points / 3rd: 15 points
 4th: 12 points / 5th: 10 points / 6th: 8 points
 7th: 6 points / 8th: 4 points / 9th: 2 points
 10th: 1 point
POLE POSITION 3 points
FASTEST RACE LAP 1 point
 (if a top-10 finisher)

