



# RACEGUIDE

## 2021 FIA WORLD ENDURANCE CHAMPIONSHIP



Manama, Kingdom of Bahrain, 2021 FIA World Endurance Championship • Rounds 5 and 6

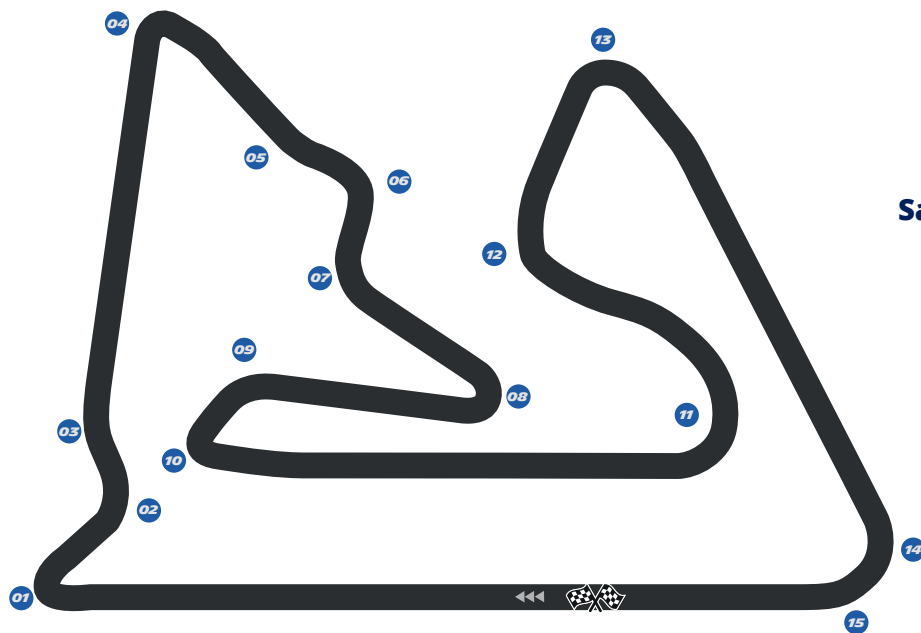
**SATURDAY, OCTOBER 30**



**SATURDAY, NOVEMBER 6**

### 6 HOURS OF BAHRAIN

### 8 HOURS OF BAHRAIN



**37 ENTRIES**

#### Sakhir International Circuit

Inaugurated in 2004

Desert setting

Track lit by 495 floodlights

**5.412KM**

**15 TURNS**



**CLOCKWISE**

#### ABRASIVE



Sakhir features few, if any, fast corners and is the most abrasive track visited by the championship. Its combination of slow and medium-fast turns calls for repeated heavy braking and hard re-acceleration which subject tires to high longitudinal forces.

#### THE 2021 6 AND 8 HOURS OF BAHRAIN

- » Added to the calendar following the 6 Hours of Fuji's cancellation
- » The FIA WEC's first-ever 'double-header' meeting
- » 63 points up for grabs at the Season 9 finale
- » Almost 23 hours of track time!
- » The 8 Hours of Bahrain takes place essentially after nightfall



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## THE 2020 RACE



- » **Winners:** Conway/Kobayashi/Lopez  
(Toyota TS050 Hybrid/Michelin), 263 laps
- » **Pole-position:** Conway/Kobayashi/Lopez  
(Toyota TS050 Hybrid/Michelin), 1m40.747s
- » **Fastest race lap:** Mui Kobayashi  
(Toyota TS050 Hybrid/Michelin, 1m42.637s)
- » **Top speed:** Paul di Resta  
(Oreca07-Gibson/Michelin), 289.7kph
- » The Toyota TS050 Hybrid celebrated its final appearance with a one-two finish
- » A one-two finish for Porsche/Michelin in LMGTE Pro thanks to a double-stint strategy on its MICHELIN Pilot Sports
- » The title for Michelin in every class

## TIMETABLE

### 6 HOURS OF BAHRAIN

THURSDAY, OCTOBER 28		
3:30pm	Free Practice 1	90 minutes
FRIDAY, OCTOBER 29		
8:00am	Free Practice 2	90 minutes
12:30pm	Free Practice 3	60 minutes
4:30pm	LMGTE Qualifying	10 minutes
4:50pm	Prototype Qualifying	10 minutes
SATURDAY, OCTOBER 30		
11:00am	Start, 6 Hours of Bahrain	

Local time - Source: fawec.com - information subject to change

### 8 HOURS OF BAHRAIN

THURSDAY, NOVEMBER 4		
5:30pm	Free Practice 1	90 minutes
FRIDAY, NOVEMBER 5		
9:00am	Free Practice 2	90 minutes
1:20pm	Free Practice 3	60 minutes
5:20pm	LMGTE Qualifying	10 minutes
5:40pm	Prototype Qualifying	10 minutes
SATURDAY, NOVEMBER 6		
2:00pm	Start, 8 Hours of Bahrain	

Local time - Source: fawec.com - information subject to change



### PIERRE ALVES

Endurance Racing Program Manager  
Michelin Motorsport

### GRIP LEVELS WILL DIFFER FROM DAY TO DAY

“The first race in Bahrain takes place entirely in daylight, whereas the second includes five hours of nighttime action. We visit Bahrain a little earlier in the year this season and the weather promises to be up to 6 or 8°C hotter. Grip levels will differ from day to day as the track cleans and rubbers up. Lap times will therefore probably tumble over the second weekend, so our technicians and engineers will take a close look at the data and tires after the first race to help our partners to optimize the performance of their MICHELIN Pilot Sports for the campaign’s last round. The Hypercar runners will be able to choose between our ‘soft hot weather’ and ‘medium hot weather’ compounds for both races, while our GTE partners have two separate choices. For the hotter six-hour daytime race, they will be able to run our ‘medium’ or ‘medium hot weather’ compound, and then either the soft or medium for the eight-hour round. This decision was taken in collaboration with the three makes involved in the classes where all the titles have yet to be settled.”



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# THE MICHELIN PILOT SPORT ENDURANCE RANGE FOR BAHRAIN

25 OF THE 37 CARS ON MICHELIN TIRES



**PERFORMANCE  
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## ALLOCATION



**SLICK**  
SOFT - SOFT HOT  
MEDIUM - MEDIUM HOT

	SLICKS Soft hot & Medium hot	INTERMEDIATES	WET Drying wet and full wet
<b>HYPERCAR</b>	31/71 - 18	31/71 - 18	31/71 - 18
Glickenhaus: Front: 29/71-18 • Rear: 34/71-18			
<b>LM GTE PRO</b>	SLICKS Soft, Medium and Medium hot		WET Drying wet and full wet
	Front: 30/68 - 18 Rear: 31/71 - 18		Front: 30/68 - 18 Rear: 31/71 - 18
<b>LM GTE AM</b>	SLICKS Soft, Medium and Medium hot		WET Drying wet and full wet
	Front: 30/68 - 18 Rear: 31/71 - 18		Front: 30/68 - 18 Rear: 31/71 - 18

Example: 31/71 - 18: width (cm) / exterior diameter (cm) x interior diameter (inches)



**WET**

## MICHELIN PILOT SPORT ENDURANCE SLICK ALLOWANCES

	Free Practice		Qualifying + Race	
	6 hours	8 hours	6 hours	8 hours
<b>HYPERCAR</b>	12 tires	12 tires	18 tires	26 tires
<b>LM GTE PRO</b>	12 tires	12 tires	18 tires	26 tires
<b>LM GTE AM</b>	16 tires	16 tires	26 tires	34 tires



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## HYPERCAR

- N°7** TOYOTA GAZOO RACING • GR010 Hybrid  
CONWAY/KOBAYASHI/LOPEZ 
- N°8** TOYOTA GAZOO RACING • GR010 Hybrid  
BUEMI/NAKAJIMA/HARTLEY 
- N°36** ALPINE ELF MATMUT • Alpine A480-Gibson  
NEGRAO/LAPIERRE/VAXIVIÈRE 

## LM P2

- N°1** RICHARD MILLE RACING • Oreca07-Gibson  
CALDERON/FLOERSH/VISSER
- N°20** HIGH CLASS RACING • Oreca07-Gibson  
KUBICA/FJORDBACH/ANDERSEN
- N°21** DRAGONSPEED USA • Oreca07-Gibson  
HEDMAN/MONTOYA/HANLEY
- N°22** UNITED AUTOSPORTS USA • Oreca07-Gibson  
HANSON/SCHERER/ALBUQUERQUE
- N°28** JOTA • Oreca07-Gibson  
GELAEL/VANDOORNE/BLOMQUIST
- N°29** RACING TEAM NEDERLAND • Oreca07-Gibson  
VAN EERD/VAN DER GARDE/VAN UITERT
- N°31** TEAM WRT • Oreca07-Gibson  
FRIJNS/HABSBURG-LOTHRINGEN/MILESI
- N°34** INTER EUROPOL COMPETITION • Oreca07-Gibson  
SMIECHOWSKI/VAN DER ZANDE/BRUNDLE
- N°38** JOTA • Oreca07-Gibson  
GONZALEZ/DA COSTA/DAVIDSON
- N°44** ARC BRATISLAVA • Ligier JSP217-Gibson  
KONOPKA/WEBB/MAINI
- N°70** REAL TEAM RACING • Oreca07-Gibson  
GARCIA/DUVAL/NATO

## LM GTE PRO

- N°51** AF CORSE • Ferrari 488 GTE Evo  
CALADO/PIER GUIDI 
- N°52** AF CORSE • Ferrari 488 GTE Evo  
SERRA/MOLINA 
- N°91** PORSCHE GT TEAM • Porsche 911 RSR-19  
BRUNI/LIETZ/MAKOVIECKI 
- N°92** PORSCHE GT TEAM • Porsche 911 RSR-19  
ESTRE/JANI/CHRISTENSEN 

## LM GTE AM

- N°33** TF SPORT • Aston Martin Vantage  
KEATING/PEREIRA/FRAGA 
- N°46** TEAM PROJECT 1 • Porsche 911 RSR  
OLSEN/TBA/TBA 
- N°47** CETILAR RACING • Ferrari 488 GTE Evo  
LACORTE/SERNAGIOTTO/FUOCO 
- N°54** AF CORSE • Ferrari 488 GTE Evo  
FLOHR/CASTELLACCI/FISICHELLA 
- N°56** TEAM PROJECT 1 • Porsche 911 RSR  
PERFETTI/CAIROLI/PERA 
- N°57** KESSEL RACING • Ferrari 488 GTE Evo  
KIMURA/JENSEN/ANDREWS 
- N°60** IRON LYNX • Ferrari 488 GTE Evo  
SCHIAVONI/PICCINI/CRESSONI 
- N°77** DEMPSEY-PROTON RACING • Porsche 911 RSR-19  
RIED/EVANS/CAMPBELL 
- N°83** AF CORSE • Ferrari 488 GTE Evo  
PERRODO/NIELSEN/ROVERA 
- N°85** IRON LYNX • Ferrari 488 GTE Evo  
FREY/BOVY/LEGGE 
- N°86** GR RACING • Porsche 911 RSR-19  
WAINWRIGHT/BARKER/GAMBLE 
- N°88** DEMPSEY-PROTON RACING • Porsche 911 RSR-19  
AL QUBAISI/DE LEENER/ANDLAUER 
- N°98** ASTON MARTIN RACING • Aston Martin Vantage  
DALLA LANA/FARFUS/GOMES 
- N°777** D'STATION RACING • Aston Martin Vantage  
HOSHINO/FUJII/WATSON 

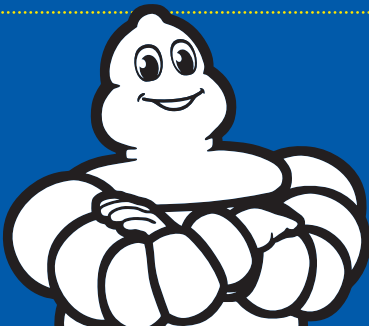
## BAHRAIN TRIVIA

- » Bahrain is a Persian Gulf archipelago made up of 33 islands
- » The main island is connected to Saudi Arabia by the King Fahd Causeway
- » Bahrain's capital Manama is situated in the north of the country
- » Sakhir International Circuit was built in a desert (92% of the country is desert)
- » Sakhir Palace is a huge palace near Zallaq and was built in 1901



## MICHELIN AND BAHRAIN

- » In 2004, Bahrain became the first Gulf state to host a Formula 1 grand prix
- » Michelin won the F1 grands prix at Sakhir in 2005 and 2006 with Fernando Alonso
- » Michelin has enjoyed victory at Sakhir with all the Hybrid LMP1 prototypes to have been produced (Audi R18 e-tron quattro, Porsche 919 Hybrid, Toyota TS030/TS040/TS050 Hybrid)
- » A Rookie Test will be held at Sakhir on Sunday, November 7



### MICHELIN STATISTIC

Michelin has been involved in the FIA World Endurance Championship since the creation of the series in 2012. Its tires have won every one of the 70 races run to date, with 34 different drivers who have clocked up a total of 116,055.37 kilometers in 604 hours 59 minutes and 17seconds.

## PREVIOUS 8 HOURS OF BAHRAIN WINNERS

**2012**



**Tréluyer/Fässler/Lotterer**  
(Audi R18 e-tron quattro 🇫🇷)

**2013**

**Davidson/Buemi/Sarrazin**  
(Toyota TS030 Hybrid 🇫🇷)

**2014**

**Wurz/Sarrazin/Conway**  
(Toyota TS040 Hybrid 🇫🇷)

**2015**

**Dumas/Jani/Lieb**  
(Porsche 919 Hybrid 🇫🇷)

**2016**

**Di Grassi/Duval/Jarvis**  
(Audi R18 🇫🇷)

**2017**

**Buemi/Davidson/Nakajima**  
(Toyota TS050 Hybrid 🇫🇷)

**2019**

**Conway/Kobayashi/Lopez**  
(Toyota TS050 Hybrid 🇫🇷)

**2020**

**Conway/Kobayashi/Lopez**  
(Toyota TS050 Hybrid 🇫🇷)







**LAP RECORD:** Lucas di Grassi (Audi R18 🇫🇷), 1m38.828s (2016)









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**WORLD ENDURANCE HYPERCAR CHAMPIONSHIP**

<b>HYPERCAR MANUFACTURERS</b>								TOTAL
		01/05	13/06	18/07	21-22/08	30/10	6/11	
1 <sup>st</sup>	<b>TOYOTA GAZOO RACING</b>	26	38	26	51	0	0	141
2 <sup>nd</sup>	<b>ALPINE ELF MATMUT</b>	18	24	18	30	0	0	90
3 <sup>rd</sup>	<b>GLICKENHAUS</b>	0	1	12	24	0	0	37

<b>HYPERCAR DRIVERS</b>								TOTAL
		01/05	13/06	18/07	21-22/08	30/10	6/11	
1 <sup>st</sup>	<b>JOSE MARIA LOPEZ</b>	16	27	26	51	0	0	120
1 <sup>st</sup>	<b>KAMUI KOBAYASHI</b>	16	27	26	51	0	0	120
1 <sup>st</sup>	<b>MIKE CONWAY</b>	16	27	26	51	0	0	120
2 <sup>nd</sup>	<b>BRENDON HARTLEY</b>	25	38	12	36	0	0	111
2 <sup>nd</sup>	<b>KAZUKI NAKAJIMA</b>	25	38	12	36	0	0	111
2 <sup>nd</sup>	<b>SÉBASTIEN BUEMI</b>	25	38	12	36	0	0	111
3 <sup>rd</sup>	<b>ANDRÉ NEGRÃO</b>	18	24	18	30	0	0	90
3 <sup>rd</sup>	<b>MATTHIEU VAXIVIERE</b>	18	24	18	30	0	0	90
3 <sup>rd</sup>	<b>NICOLAS LAPIERRE</b>	18	24	18	30	0	0	90







**GT FIA WORLD ENDURANCE CHAMPIONSHIP**

<b>GT MANUFACTURERS</b>								TOTAL
		01/05	13/06	18/07	21-22/08	30/10	6/11	
1 <sup>st</sup>	<b>FERRARI</b>	33	65	30	75	0	0	203
2 <sup>nd</sup>	<b>PORSCHE</b>	38	42	41	66	0	0	187







  

<b>GT DRIVERS</b>								TOTAL
		01/05	13/06	18/07	21-22/08	30/10	6/11	
1 <sup>st</sup>	<b>ALESSANDRO PIER GUIDI</b>	18	38	18	50	0	0	124
1 <sup>st</sup>	<b>JAMES CALADO</b>	18	38	18	50	0	0	124
2 <sup>nd</sup>	<b>KEVIN ESTRE</b>	26	24	26	36	0	0	112
2 <sup>nd</sup>	<b>NEEL JANI</b>	26	24	26	36	0	0	112
3 <sup>rd</sup>	<b>GIANMARIA BRUNI</b>	12	18	15	30	0	0	75
3 <sup>rd</sup>	<b>RICHARD LIETZ</b>	12	18	15	30	0	0	75

**FIA ENDURANCE TROPHY - GTE AM**

<b>GTE AM MANUFACTURERS</b>								TOTAL
		01/05	13/06	18/07	21-22/08	30/10	6/11	
1 <sup>st</sup>	<b>AF CORSE</b>	25	2	25	50	0	0	102
2 <sup>nd</sup>	<b>TF SPORT</b>	19	9	1,5	36	0	0	65,5
3 <sup>rd</sup>	<b>CETILAR RACING</b>	15	38	1	-	0	0	28

<b>GTE AM DRIVERS</b>								TOTAL
		01/05	13/06	18/07	21-22/08	30/10	6/11	
1 <sup>st</sup>	<b>ALESSIO ROVERA</b>	25	2	25	50	0	0	102
1 <sup>st</sup>	<b>FRANÇOIS PERRODO</b>	25	2	25	50	0	0	102
1 <sup>st</sup>	<b>NICKLAS NIELSEN</b>	25	2	25	50	0	0	102
2 <sup>nd</sup>	<b>BEN KEATING</b>	19	9	1,5	35	0	0	65,5
2 <sup>nd</sup>	<b>DYLAN PEREIRA</b>	19	9	1,5	35	0	0	65,5
2 <sup>nd</sup>	<b>FELIPE FRAGA</b>	19	9	1,5	35	0	0	65,5
3 <sup>rd</sup>	<b>ANTONIO FUOCO</b>	15	38	1	-	0	0	54
3 <sup>rd</sup>	<b>GIORGIO SERNAGIOTTO</b>	15	38	1	-	0	0	54
3 <sup>rd</sup>	<b>ROBERTO LACORTE</b>	15	38	1	-	0	0	54

# CALENDAR 2021



**MAY 1**

6 Hours of  
Spa-Francorchamps



**JUNE 13**

8 Hours of Portimão



**JULY 18**

6 Hours of Monza



**AUGUST 21-22**

24 Hours of Le Mans



**OCTOBER 30**

6 Hours of Bahrain



**NOVEMBER 6**

8 Hours of Bahrain

## FIA WEC TIRE REGULATIONS

### SLICK TIRES

**Non-hybrid LM P1 and LM P2 cars:** 3 types of slick for the season for all the cars / 2 types of slick to be nominated 48 hours before the Prologue test / 2 types of slick for each race (from the above 3) to be nominated 48 hours before the start of scrutineering (3 types of slick for Le Mans).

**LM GTE Pro and LM GTE Am:** 3 types of slick per model for the season / 2 types of slick to be nominated 48 hours before the Prologue test / 1 additional type of slick can be registered in the course of the season / 2 types of slick for each race (from the above 3) to be nominated 48 hours before the start of scrutineering (3 types of slick for Le Mans).

### RAIN AND INTERMEDIATE TIRES

Can only be used if Race Control declares the track to be wet (free practice, qualifying, race). No quotas per race.

**LM P2:** 1 type of intermediate tire and 1 type of rain tire for the season for all cars entered 48 hours before the Prologue. The re-cutting of tread patterns is not authorised.

**LM GTE Am:** 1 type of intermediate tire and 1 type of rain tire per model entered 48 hours before the Prologue. The re-cutting of tread patterns is not authorised.

In the course of the season, a competitor may change tire brand no more than once.

**Penalty:** a 3-minute Stop&Go penalty for tire regulation breaches

**A maximum of 4 mechanics and 2 tire guns** for wheel changes during pit stops. A car's tires may only be changed once it has been refuelled.

**1 tire technician** is authorised to carry out a visual inspection of the tires and check their pressures.

**Tire changes** are only authorised a) on the grid up to the three-minute board, b) in front of the car's garage during a pit stop or inside the garage in the case of longer work on the car, c) on the track if the race is suspended.

**Tires are identified by RFID chips and bar codes.** All tire serial numbers must be communicated to the Technical Delegates 48 hours in advance.



\* on available pilot tire range. Legal mention on michelin.com



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