

# RACECARD

2019 MICHELIN MotoGP™



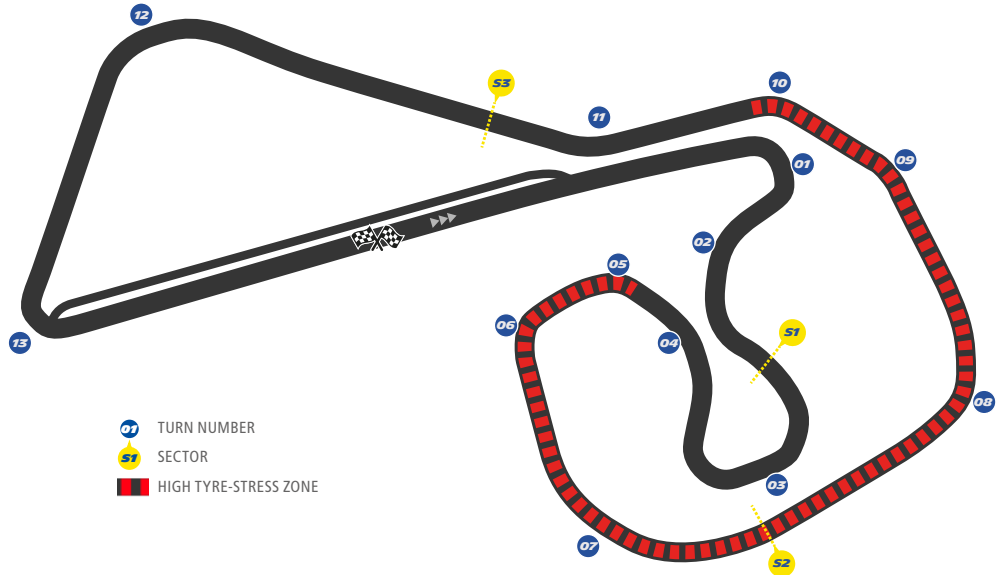
**09**  
**HJC HELMETS**  
**MOTORRAD GRAND**  
**PRIX DEUTSCHLAND**  
**JULY 5»7**  
**2019**  
**SACHSENRING**  
**GERMANY**

## TIMETABLE

FREE PRACTICE FRIDAY, JULY 7		
09:00 - 09:40	Moto3	FP1
09:55 - 10:40	MotoGP	FP1
10:55 - 11:35	Moto2	FP1
11:50 - 12:20	MotoE	FP1
13:15 - 13:55	Moto3	FP2
14:10 - 14:55	MotoGP	FP2
15:10 - 15:50	Moto2	FP2
16:50 - 17:20	MotoE	FP2

QUALIFYING PRACTICE SATURDAY, JULY 8		
09:00 - 09:40	Moto3	FP3
09:55 - 10:40	MotoGP	FP3
10:55 - 11:35	Moto2	FP3
12:35 - 12:50	Moto3	QP1
13:00 - 13:15	Moto3	QP2
13:30 - 14:00	MotoGP	FP4
14:10 - 14:25	MotoGP	QP1
14:35 - 14:50	MotoGP	QP2
15:05 - 15:20	Moto2	QP1
15:30 - 15:45	Moto2	QP2
16:00	MotoE	E-Pole

RACE SUNDAY, JULY 9		
8:20 - 8:40	Moto3	WUP
8:50 - 9:10	Moto2	WUP
9:20 - 9:40	MotoGP	WUP
10:00	MotoE	RAC
11:00	Moto3	RAC
12:20	Moto2	RAC
14:00	MotoGP	RAC



- 01 TURN NUMBER
- S1 SECTOR
- High TYRE-STRESS ZONE

LENGTH	WIDTH	RIGHT CORNERS	LEFT CORNERS	LONGEST STRAIGHT	LAPS	TOTAL DISTANCE
<b>3.671</b> KM	<b>12</b> M	<b>3</b>	<b>10</b>	<b>700</b> M	<b>30</b>	<b>110.1</b> KM

### RECORDS

**All Time Lap Record**  
 Marc Márquez (Honda, 2018):  
 1m20.270s

**Best lap race**  
 Jonas Folger (Yamaha, 2017):  
 1m21.442s

**Race duration**  
 Marc Márquez (Honda, 2017):  
 40m59.525s

**Top Speed**  
 Andrea Dovizioso (Ducati, 2015):  
 298.2Km/h

### 2018 PODIUM

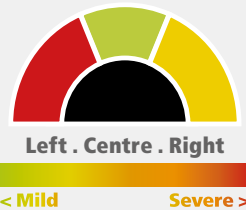
**2018 Pole: M. Márquez (Honda) ⌚ 1m20.270s**

### MICHELIN'S RECORD

**Wins: 13**  
 (1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2016, 2017, 2018)

**Pole positions: 12**  
 (1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2016, 2017, 2018)

### TYRE SEVERITY RATING



### DID YOU KNOW?

The programme of the HJC Helmets Motorrad Grand Prix Deutschland weekend also includes the first round of the inaugural FIM Enel MotoE™ World Cup!



LOCAL TIME - SOURCE: motogp.com - INFORMATION SUBJECT TO CHANGE



# 2019 TYRE REGULATIONS

## Allocation per race

**22 SLICKS:**

### 10 front slicks:

- ✓ Up to 5 A-specification tyres
- ✓ Up to 5 B-specification tyres
- ✓ Up to 5 C-specification tyres

### 12 rear slicks:

- ✓ Up to 6 A-specification tyres\*
- ✓ Up to 5 B-specification tyres
- ✓ Up to 4 C-specification tyres

(\* Riders who participate in both Q1 and Q2 qualifying sessions (maximum 2 riders) will be allocated one extra front tyre of their preferred specification after Q2 (therefore, if taken, a maximum of 6 of that specification) and one extra rear slick tyre of specification A (highest grip level) after Q2 (therefore, if taken, a maximum of 7 of specification A).

In the case that Q1 and Q2 sessions are both declared wet by the Race Director, the extra tyres allocated will be a rain tyres (of the specification the rider prefer for both front tyre and rear tyre). In the case that Q1 and Q2 sessions are declared as different weather conditions (dry or wet) then no extra tyre will be allocated.

## 13 RAIN TYRES

6 front tyres of 2 specifications

7 rear tyres of 2 specifications

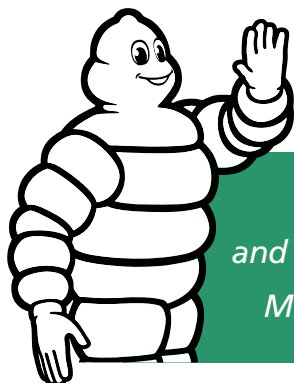
In the case that any 4 of the 5 sessions, being FP1, 2, 3, 4, and one Qualifying session (excluding warm-up), are declared wet, one more set of rain tyres will be allocated to every rider, and the allocation automatically becomes:  
7 Front rain tyres, and 8 Rear rain tyres.



### PIERO TARAMASSO

Michelin Motorsport Two-Wheel Manager:

"This is going to be a very busy weekend for all at Michelin as we have the very first MotoE™ race alongside the MotoGP™. As far as MotoGP is concerned, we know the requirements of this track, it is short and is also one of the slowest of the year, but it places a huge amount of demands on the left-side of the tyre. We bring a specific compound to Germany to cope with this and also for the weather. It is one of the tracks where you never know what to expect and it changes quickly, so we need to make a range of tyres that work in all conditions. It will be very interesting to see the first MotoE™ race, we have done a lot of testing and developed a range of tyres specifically suited to these machines, so it is now time to see them used in the field of competition. Michelin is delighted to participate in this new challenge as a technology partner, as it has a history of choosing projects that will improve mobility and make it safer, more economical and more environmentally friendly for all, and we see MotoE™ as a perfect platform to enable Michelin to be involved in fully electric motorcycles on a very visible worldwide stage."



Explore Dresden and the Sachsenring area with the Michelin Green Guide Berlin.



# ENTRY LIST

## MONSTER ENERGY YAMAHA MOTOGP



**MAVERICK VIÑALES**  
#12

Born: **January 12, 1995**  
Grand Prix debut: **2015, Qatar**

80 🏁 6 🏆 18 🏅 7 🏆

**RECORD WITH MICHELIN**

6 🏆 18 🏅 7 🏆 (0)



**VALENTINO ROSSI**  
#46

Born: **February 16, 1979**  
Grand Prix debut: **2000, South Africa**

331 🏁 89 🏆 198 🏅 55 🏆

World titles: (2009, 2008, 2005, 2004, 2003, 2002, 2001) (7)

**RECORD WITH MICHELIN**

65 🏆 123 🏅 43 🏆 (5)

## REPSOL HONDA TEAM



**MARC MÁRQUEZ**  
#93

Born: **February 17, 1993**  
Grand Prix debut: **2013, Qatar**

116 🏁 48 🏆 84 🏅 56 🏆

World titles: (2018, 2017, 2016, 2014, 2013) (5)

**RECORD WITH MICHELIN**

24 🏆 45 🏅 26 🏆 (3)



**STEFAN BRADL**  
#6

Born: **November 29, 1989**  
Grand Prix debut: **2012, Qatar**

108 🏁 0 🏆 1 🏅 1 🏆

## DUCATI TEAM



**ANDREA DOVIZIOSO**  
#4

Born: **March 23, 1986**  
Grand Prix debut: **2008, Qatar**

204 🏁 13 🏆 55 🏅 7 🏆

**RECORD WITH MICHELIN**

12 🏆 26 🏅 4 🏆 (0)



**DANILO PETRUCCI**  
#9

Born: **October 24, 1990**  
Grand Prix debut: **2012, Qatar**

126 🏁 1 🏆 9 🏅 0 🏆

**RECORD WITH MICHELIN**

1 🏆 8 🏅 0 🏆 (0)

## TEAM SUZUKI ECSTAR



**ALEX RINS**  
#42

Born: **December 8, 1995**  
Grand Prix debut: **2017, Qatar**

40 🏁 1 🏆 7 🏅 0 🏆

**RECORD WITH MICHELIN**

1 🏆 7 🏅 0 🏆 (0)



**JOAN MIR**  
#36

Born: **September 1<sup>st</sup>, 1997**  
Grand Prix debut: **2019, Qatar**

8 🏁 0 🏆 0 🏅 0 🏆

## APRILIA RACING TEAM GRESINI



**ALEIX ESPARGARÓ**  
#41

Born: **July 30, 1989**  
Grand Prix debut: **2009, Indianapolis**

154 🏁 0 🏆 1 🏅 2 🏆



**ANDREA IANNONE**  
#29

Born: **August 9, 1989**  
Grand Prix debut: **2013, Qatar**

108 🏁 1 🏆 11 🏅 2 🏆

**RECORD WITH MICHELIN**

1 🏆 8 🏅 1 🏆 (0)

## REALE AVINTIA RACING



**TITO RABAT**  
#53

Born: **May 25, 1989**  
Grand Prix debut: **2016, Qatar**

54 🏁 0 🏆 0 🏅 0 🏆



**KAREL ABRAHAM**  
#17

Born: **January 2, 1990**  
Grand Prix debut: **2011, Qatar**

110 🏁 0 🏆 0 🏅 0 🏆

## PETRONAS YAMAHA SRT



**FRANCO MORBIDELLI**  
#21

Born: **December 4, 1994**  
Grand Prix debut: **2018, Qatar**

24 🏁 0 🏆 0 🏅 0 🏆



**FABIO QUARTARARO**  
#20

Born: **April 20, 1999**  
Grand Prix debut: **2019, Qatar**

8 🏁 0 🏆 2 🏅 3 🏆

**RECORD WITH MICHELIN**

0 🏆 2 🏅 3 🏆 (0)

## RED BULL KTM FACTORY RACING



**JOHANN ZARCO**  
#5

Born: **July 16, 1990**  
Grand Prix debut: **2017, Qatar**

44 🏁 0 🏆 6 🏅 4 🏆

**RECORD WITH MICHELIN**

0 🏆 6 🏅 4 🏆 (0)



**POL ESPARGARÓ**  
#44

Born: **June 10, 1991**  
Grand Prix debut: **2014, Qatar**

94 🏁 0 🏆 1 🏅 0 🏆

**RECORD WITH MICHELIN**

0 🏆 1 🏅 0 🏆 (0)

## LCR HONDA



**CAL CRUTCHLOW**  
#35

Born: **October 29, 1985**  
Grand Prix debut: **2011, Qatar**

146 🏁 3 🏆 17 🏅 4 🏆

**RECORD WITH MICHELIN**

3 🏆 9 🏅 2 🏆 (0)



**TAKAAKI NAKAGAMI**  
#30

Born: **February 9, 1992**  
Grand Prix debut: **2018, Qatar**

26 🏁 0 🏆 0 🏅 0 🏆

## PRAMAC RACING



**JACK MILLER**  
#43

Born: **January 18, 1995**  
Grand Prix debut: **2015, Qatar**

74 🏁 1 🏆 2 🏅 1 🏆

**RECORD WITH MICHELIN**

1 🏆 2 🏅 1 🏆 (0)



**FRANCESCO BAGNAIA**  
#63

Born: **January 14, 1997**  
Grand Prix debut: **2019, Qatar**

8 🏁 0 🏆 0 🏅 0 🏆

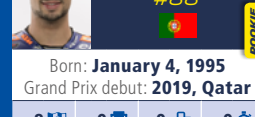
## RED BULL KTM TECH 3



**HAFIZ SYAHRIN**  
#55

Born: **May 5, 1994**  
Grand Prix debut: **2018, Qatar**

26 🏁 0 🏆 0 🏅 0 🏆



**MIGUEL OLIVEIRA**  
#88

Born: **January 4, 1995**  
Grand Prix debut: **2019, Qatar**

8 🏁 0 🏆 0 🏅 0 🏆

🏁 RACE STARTS    🏆 WINS    🏅 PODIUMS    🕒 POLES    🏆 WORLD TITLES



# RIDERS' STANDINGS

RACE				QAT	ARG	USA	ESP	FRA	ITA	ESP	NED	DEU	CZE	AUT	GBR	SMR	ESP	THA	JPN	AUS	MYS	ESP			
				Losail 10/03	Rio Hondo 31/03	Austin 14/04	Jerez 05/05	Le Mans 19/05	Mugello 02/06	Catalunya 16/06	Assen 30/07	Sachsenring 07/07	Brno 04/08	Spielberg 11/08	Silverstone 25/08	Misano 15/09	Aragon 22/09	Chang 06/10	Motegi 20/10	Phillip Island 27/10	Sepang 03/11	Torredonja 17/11			
RIDERS' STANDINGS				Wins	Podium	Points	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
1	Marc Márquez #93	3	7	160	20	25	DNF	25	25	20	25	20													
2	Andrea Dovizioso #4	1	4	116	25	16	13	13	20	16	DNF	13													
3	Danilo Petrucci #9	1	3	108	10	10	10	11	16	25	16	10													
4	Alex Rins #42	1	2	101	13	11	25	20	6	13	13	DNF													
5	Valentino Rossi #46		2	72	11	20	20	10	11	DNF	DNF	DNF													
6	Fabio Quartararo #20		2	67	0	8	9	DNF	8	6	20	16													
7	Maverick Viñales #12	1	2	65	9	DNF	5	16	DNF	10	DNF	25													
8	Jack Miller #43		1	60	DNF	13	16	DNF	13	DNF	11	7													
9	Pol Espargaró #44			52	4	6	8	3	10	7	9	5													
10	Cal Crutchlow #35		1	51	16	3	DNF	8	7	8	DNF	9													
11	Takaaki Nakagami #30			48	7	9	6	7	DNF	11	8	DNF													
12	Franco Morbidelli #21			45	5	DNF	11	9	9	DNF	DNF	11													
13	Alex Espargaró #41			31	6	7	DNF	5	4	5	DNF	4													
14	Joan Mir #36			30	8	DNF	0	DNF	0	4	10	8													
15	Jorge Lorenzo #99			19	3	4	DNF	4	5	3	DNF	DNS													
16	Andrea Iannone #29			18	2	0	4	DNS	DNF	1	5	6													
17	Johann Zarco #5			16	1	1	3	2	3	0	6	DNF													
18	Miguel Oliveira #88			15	0	5	2	0	1	0	4	3													
19	Francesco Bagnaia #63			11	DNF	2	7	DNF	DNF	DNF	DNF	2													
20	Michele Pirro #51			9	-	-	-	-	-	9	-	-													
21	Tito Rabat #53			9	0	DNF	1	1	DNF	DNF	7	0													
22	Stefan Bradl #6			6	-	-	-	6	-	-	-	-													
23	Sylvain Guintoli #50			3	-	-	-	-	-	-	3	-													
24	Hafizh Syahrin #55			3	0	0	0	0	2	DNF	DNF	1													
25	Karel Abraham #17			2	0	DNF	0	0	DNF	2	DNF	0													
26	Bradley Smith #38			0	DNF	-	-	0	-	-	DNF	-													

1<sup>st</sup> ..... 25 pts    4<sup>th</sup> ..... 13 pts    7<sup>th</sup> ..... 9 pts    10<sup>th</sup> ..... 6 pts    13<sup>th</sup> ..... 3 pts  
 2<sup>nd</sup> ..... 20 pts    5<sup>th</sup> ..... 11 pts    8<sup>th</sup> ..... 8 pts    11<sup>th</sup> ..... 5 pts    14<sup>th</sup> ..... 2 pts    DNF: Did Not Finish  
 3<sup>rd</sup> ..... 16 pts    6<sup>th</sup> ..... 10 pts    9<sup>th</sup> ..... 7 pts    12<sup>th</sup> ..... 4 pts    15<sup>th</sup> ..... 1 pt    DNS: Did Not Start



# FACTS

**15,000**



The number of kilometres covered by a rider during a season (races and practice)



**22**

slick tyres a rider can use

during a grand prix weekend (free practice, qualifying, warm-up and race)



MINIMUM PRESSURE FOR A TYRE

Front slick

**1,9 BAR**

Rear slick

**1,7 BAR**



THE OPERATING TEMPERATURE

Front slick

**100°C**

Rear slick

**120°C**

## MICHELIN'S MotoGP™ RACE STAFF



**2 DEVELOPERS**



**8 TECHNICIANS**



**11 FITTERS**



**1 MANAGER**



**1 PRESS OFFICER**



**3 MARKETING / COMMUNICATION**



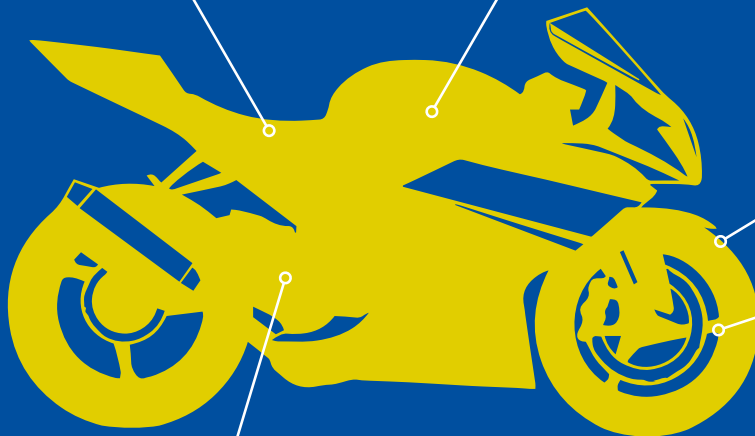
WEIGHT:

**157 KG**



MAXIMUM FUEL TANK CAPACITY:

**22 LITRES**



ENGINE DISPLACEMENT:

**1,000 cc**

**4**  
stroke

POWER:

**240 HP**

## TYRES



MICHELIN  
**POWER SLICK**



OR MICHELIN  
**POWER RAIN**

**17"**

RIM  
DIAMETER:

**17 INCHES**

SIZES:

FRONT: **12 / 60 - 17**

Width (cm)    Exterior diameter (cm)    Rim diameter (inches)

REAR: **20 / 69 - 17**





# MICHELIN'S MotoGP™ RANGE 2019 SEASON

## MICHELIN POWER SLICK

FRONT  
12/60 - 17



SOFT

MEDIUM

HARD

REAR  
20/69 - 17



## MICHELIN POWER RAIN

FRONT  
12/60 - 17



EXTRA SOFT

SOFT

MEDIUM

REAR  
20/69 - 17



# DO YOU SPEAK MotoGP™?

## Apex

The tightest point of a corner, which the rider usually rides through just before he begins to exit and accelerate away.

## Highside

A crash in which the rear wheel of the bike slides out from under the rider – so that he is essentially at a right angle to his racing line (the direction in which he was going) – and then regains grip, which flips the bike and rider over.

## Hole-shot

Taking the hole-shot means leading the race at the first corner.

## OnBoard

An 'OnBoard' is a television camera carried by a MotoGP™ bike. Installed in various parts of the bike, these cameras offer some of the most spectacular perspectives of the race.

## Paddock

The area adjacent to the pit boxes on the opposite side to the pit-lane, where teams and riders station their motorhomes and equipment for the duration of a grand prix weekend.

## Parc Ferme

Designated area in the pit-lane where podium-finishing riders (first three) in each class are interviewed by television crews immediately after each race.

## Pit box

The pit-boxes house teams over the course of a grand prix weekend, serving as a temporary garage and workshop.

## Pit-lane

An access lane to the track which runs alongside the start/finish straight, adjacent to the pit-boxes and separated from the circuit by the pit wall.

## Ride Through

A Ride Through procedure is a penalty where a rider is instructed to ride through the pit-lane – within a maximum speed limit – and can be imposed if he has contravened the regulations, for example, jump-starting before the race has officially commenced.

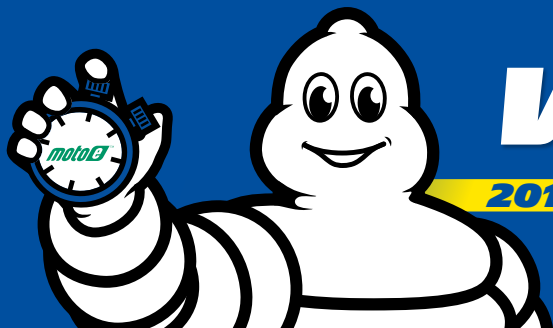
## Rookie

A rider competing in his first year in any of the three categories of grand prix racing is referred to as a rookie.

## Wild cards

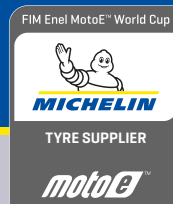
Unregistered riders who are entered for one-off grands prix, as opposed to regular World Championship competitors.





# WORLD CUP

2019 FIM ENEL MotoE™



## CALENDAR

<b>07/07</b> 2019		<b>RACE 1</b> Sachsenring, Germany
<b>11/08</b> 2019		<b>RACE 2</b> Red Bull Ring, Austria
<b>15/09</b> 2019		<b>RACES 3 AND 4</b> Misano, Italy
<b>17/11</b> 2019		<b>RACES 5 AND 6</b> Valencia, Spain



**Bike:** Energica Ego Corsa

**Battery capacity:** around 20 Kwh

**Power:** up to 120Kw (around 160 Hp)

**Max speed:** up to 270km/h

**Minimum weight:** 260kg



3 TECHNICIANS

## TYRES

Michelin provides one type of front and rear slick tyre and one type front and rear rain tyre per race weekend. The specification may change according to the track layout. The number of tyres per specification is four front slicks and five rears, with an additional three front rain tyres and four rears.



### SLICK TYRE ALLOCATIONS

**9 slick tyres:**  
**4 fronts** (12/60-17)  
and **5 rears** (20/69-17)



### RAIN TYRE ALLOCATIONS

**7 rain tyres:**  
**3 front** and **4 rear**

One compound option per race weekend

Based upon the track layout and expected conditions for each Grand Prix, Michelin will select the most suitable tyre compound option for each race weekend.



✓ Every machine is delivered with 2 sets of tyre warmers for use with slick tyres, and 1 set of tyre warmers for use with rain tyres.





# ENTRY LIST

## ALMA PRAMAC RACING

**JOSH HOOK**  
#16  


**ALEX DE ANGELIS**  
#5  


## ANGEL NIETO TEAM

**MARIA HERRERA**  
#6  


**NICOLAS TEROL**  
#18  


## AVINTIA ESPONSORAMA RACING

**XAVIER SIMÉON**  
#19  


**ERIC GRANADO**  
#51  


## LCR E-TEAM

**RANDY DE PUNIET**  
#14  


**NICCOLO CANEPA**  
#7  


## TECH3 E-RACING

**HECTOR GARZO**  
#4  


**KENNY FORAY**  
#78  


## TRENTINO GRESINI MOTOE

**MATTEO FERRARI**  
#11  


**LORENZO SAVADORI**  
#32  


## DYNAVOLT INTACT GP

**JESKO RAFFIN**  
#2  


## AJO MOTORSPORT MOTOE

**NIKI TUULI**  
#66  


## EG 0,0 MARC VDS

**MIKE DI MEGLIO**  
#63  


## ONE ENERGY RACING

**BRADLEY SMITH**  
#38  


## PONS RACING

**SETE GIBERNAU**  
#15  


## SIC58 SQUADRACORSE

**MATTIA CASADEI**  
#27  


## RACE FORMATS

18 riders represent 12 teams, and wildcards are not permitted

### PRACTICE

Two practice sessions (30 minutes) on Friday

### E-POLE QUALIFYING PRACTICE

Each rider will carry out 3 laps of the circuit (one warm up lap - one timed lap - one slow down lap).

The riders will start one by one, from the end of the pit lane

The starting order of the riders will be the opposite of the combined free practice results

### GRID

Grid positions will be based on the fastest time recorded by the riders in the E-Pole qualifying session.

In the case where the E-Pole qualifying session has been cancelled, the grid position will be based on the fastest times recorded by riders in all free practice sessions.

### RACE

Riders will complete one sighting lap before taking their position on the grid. There is no warm up lap, once the grid preparations have finished, the red light will go out and the race starts.

Riders on the grid may change tyres to suit the track conditions. Tyre warmers may be used on the grid.

Charging of the battery on the grid is permitted

### POINTS-SCORING SYSTEM

All races will count for the Cup classification.

1 <sup>st</sup> ..... 25 pts	6 <sup>th</sup> ..... 10 pts	11 <sup>th</sup> ..... 5 pts
2 <sup>nd</sup> ..... 20 pts	7 <sup>th</sup> ..... 9 pts	12 <sup>th</sup> ..... 4 pts
3 <sup>rd</sup> ..... 16 pts	8 <sup>th</sup> ..... 8 pts	13 <sup>th</sup> ..... 3 pts
4 <sup>th</sup> ..... 13 pts	9 <sup>th</sup> ..... 7 pts	14 <sup>th</sup> ..... 2 pts
5 <sup>th</sup> ..... 11 pts	10 <sup>th</sup> ..... 6 pts	15 <sup>th</sup> ..... 1 pt

