



HCMC Thunder Bike Eligibility 2024

Supplementary Regulations

- Thunder Bikes to be split into Three (3) Racing Categories. TB1, TB2, TB3. Points are to be awarded for each Racing Category
- To cater for Production based bikes yrs 2000 – Present.
- Individual bikes pre 2000 may be considered at discretion of the Committee
- Max Cylinder: - Three (3)
- Tyres Open
- Fuel Pump or Race fuel as per MoMs 17.3.4 (a)
- Belly Pans for Production based naked bikes are recommended and at discretion of the committee
- Belly Pans for Production based sports bikes with open or closed full or part fairings must comply with MoMs 6.17.1.15
- Racing Category TB1 Max engine power to weight ratio (mechanical HP/Kg) 0.725 to 0.959
- Racing Category TB2 Max engine power to weight ratio (mechanical HP/Kg) 0.520 to 0.724
- Racing Category TB3 Max engine power to weight ratio (mechanical HP/Kg) 0.230 to 0.519
- HP means = Rear Wheel Horsepower in BHP
- Kg means = Wet Kerb weight in Kg, (including water fuel and oil)

All data used to create the example tables is sourced from: <https://www.motorcyclespecs.co.za>

Please check your bike eligibility through the web link to establish category

Examples only TB1



HCMC WA TB1 sample BIKE LIST

POWER TO WEIGHT RATIO SCORE

Year of bike is indicative only

NOTE: TB1 BIKES POWER TO WEIGHT RATIO = 0.725 TO 0.959

BIKE MAKE	BIKE MODEL	YEAR	CRANK POWER (HP)	Dry WEIGHT (KG)	POWER TO WEIGHT RATIO
Triumph	Daytona 675	2013	126.00	167.00	0.754
Triumph	Daytona 675R	2014	128.00	167.00	0.766
Triumph	Daytona 675	2006	123.00	166.00	0.741
Ducati	848 EVO	2010	140.00	168.00	0.833
Ducati	848.00	2009	134.00	168.00	0.798
Ducati	959.00	2017	150.00	176.00	0.852
Ducati	V2	2020	155.00	176.00	0.881
Ducati	899.00	2015	148.00	169.00	0.876
Ducati	1098/1098S	2008	160	173	0.925
Ducati	996R	2001	136.00	185.00	0.735
Ducati	998R	2003	139.00	183.00	0.760
Aprilia	RSV1000R Factory	2006	139.00	185.00	0.751
Buell	1125R	2008	146.00	170.00	0.859
Triumph	765RS	2019	121.00	165.00	0.733
KTM	RC8	2009	152.20	184.00	0.827
KTM	RC8R	2014	175	186	0.941
KTM	1290 Super Duke R	189	180		0.952

Examples only TB2



HCMC WA

TB2 BIKE LIST

POWER TO WEIGHT RATIO SCORE

Year of bike is indicative only

NOTE: TB2 BIKES POWER TO WEIGHT RATIO = 0.52 TO 0.724

BIKE MAKE	BIKE MODEL	YEAR	CRANK POWER (HP)	Dry WEIGHT (KG)	POWER TO WEIGHT RATIO
Aprilia	RS 660	2020	100.00	169.00	0.592
Aprilia	RXV 550i	2001	70.00	127.00	0.551
Aprilia	SXV550	2008	70.00	118.00	0.593
Aprilia	SXV450	2008	60	97	0.619
Buell	XB Series (XB12R used)	2010	103.00	179.00	0.575
Indian	FTR 1200 Sport	2023	120.00	223.00	0.538
MOTO GUZZI	MGS01	2005	122.00	192.00	0.635
Ducati	748R	2002	105.00	198.00	0.530
Ducati	749.00	2006	108.00	188.00	0.574
Ducati	748R	2004	121.00	193.00	0.627
Ducati	996.00	2000	112.00	198.00	0.566
Ducati	998.00	2003	123.00	198.00	0.621
KTM	790 Duke	2023	105.00	188.00	0.559
KTM	890 Duke R	2020	119.00	166.00	0.717
KTM	890 Duke	2021	114.00	169.00	0.675
KTM	990 Superduke	2012	120.00	186.00	0.645
KTM	991 Superduke R	2012	125.00	186.00	0.672
Triumph	Street Triple 675R	2016	106.00	168.00	0.631
Triumph	Street Tripple 675	2016	106.00	188.00	0.564
Triumph	Street Tripple 765S	2019	111.00	165.00	0.673
Triumph	Street Tripple 65R	2020	116.00	168.00	0.690
Aprilia	Tuono 1000	2003	126.00	181.00	0.696
Triumph	Street Triple RS	2017	111.00	165.50	0.671

Examples only TB3



HCMC WA TB3 BIKE LIST

POWER TO WEIGHT RATIO SCORE

Year of bike is indicative only

NOTE: TB3 BIKES POWER TO WEIGHT RATIO = 0.230 TO 0.519

BIKE MAKE	BIKE MODEL	YEAR	CRANK POWER (HP)	DRY WEIGHT (KG)	POWER TO WEIGHT RATIO
Aprilia	SL750	2007	95.00	189.00	0.503
BMW	F650	2000	50	178	0.281
BMW	F900R	2023	105.00	211.00	0.498
BMW	F850GS	2021	90.00	233.00	0.386
BMW	F800R	2017	87.00	177.00	0.492
BMW	F750GS	2022	77.00	227.00	0.339
BMW	F700GS	2017	75.00	186.00	0.403
KTM	390	2013	43.5	139	0.313
KTM	690	2014	70	149.5	0.468
Ducati	800SS	2003	74.5	182	0.409
Ducati	900SS	2001	80	188	0.426
Ducati	696 Monster	2014	78.8	161	0.489
Ducati	748.00	2000	98.00	202.00	0.485
Royal Enfield	Continental/Interceptor 650	2018	47	198	0.237
Triumph	T100 Bonneville	2021	64	228	0.281
Triumph	Thruxton 865	2010	69	205	0.337
Triumph	660 LAMS	2021	53.2	168	0.317
Buell	2 Valve (X1 Lightning used)	2002	101.00	200.00	0.505



HCMC Thunder Bike Eligibility

Bikes used in the above tables are example only

All data used to develop eligibility tables are sourced from

<https://www.motorcyclespecs.co.za>

It is the responsibility of the owner / rider to check bike eligibility and to establish Racing Category before entering.

Individual bike eligibility is at the discretion of the committee and may change from event to event depending on performance.

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