



tigerlight®

HIGH-PERFORMANCE
INDUSTRIAL LIGHTING

CORSO SOLAR ENGINES



CORSO
SOLAR ENGINE



INTRODUCING THE 4TH GENERATION CORSO SOLAR RANGE

For 15 years, Tigerlight’s Corso range has set the standard in solar-powered off-grid LED lighting for government and industrial applications across Australia, and now the evolution continues with our most advanced solar engines yet.

The Corso solar engines combine a high-efficiency solar panel, smart controller, and long-life LiFePO₄ battery in one fully integrated unit. They generate, store, and supply clean energy to power Tigerlight’s industrial-grade lighting with zero grid dependency.

Solar lighting gives you light where you need it, without the need for electrical infrastructure or trenching. And being off grid, there are no power bills.

COMPONENTS

Solar Panel

A-grade high efficiency monocrystalline panels

Batteries

LiFePO₄ Battery with battery management system.

Solar Controller

MPPT fully programmable smart controller with microwave sensor

Mounting bracket

Stainless mounting bracket with adjustable tilt.



PAIRED SOLAR PANELS AND BATTERIES

Corso Solar Engines are available in 3 sizes to satisfy the requirements of each particular application as well as the location in terms of the solar zone:

Panel	55W	110W	175W
Battery	380Wh	1100Wh	1690Wh





APPLICATIONS

Car parks
 Caravan parks
 Mine camps
 Wharves & jetties

Parks & paths
 Civic spaces
 Muster points
 Agriculture

Private roads
 Retirement villages
 Perimeter lighting
 Shipping Container lighting

COMPATIBLE TIGERLIGHT LUMINAIRES

Corso Solar Engines are fully compatible with Tigerlight's customisable outdoor area lighting platform, and therefore, all options for mounting, optics and colour temperature are available to suit each specific application.

The output of Tigerlight luminaires is adjustable from 10W to 60W to suit local solar conditions.



MAKO

P/N: MLCORSO



MEGA FLOOD

FLCORSO



STREET LIGHT

SLCORSO



MAKO BULKHEAD

BLCORSO



SENTRY WALLPACK

WLCORSO

WIDE ARRAY OF PROGRAMMING & OUTPUT OPTIONS

- Refer page 7 for 5 typical programming options available
- Corso Solar Engines can power a single light or multiple lights
- They are individually programmed to suit each specific application
- Microwave sensor available to maximise battery life and boost security
- 24 hour power availability for applications where light is required during daytime.



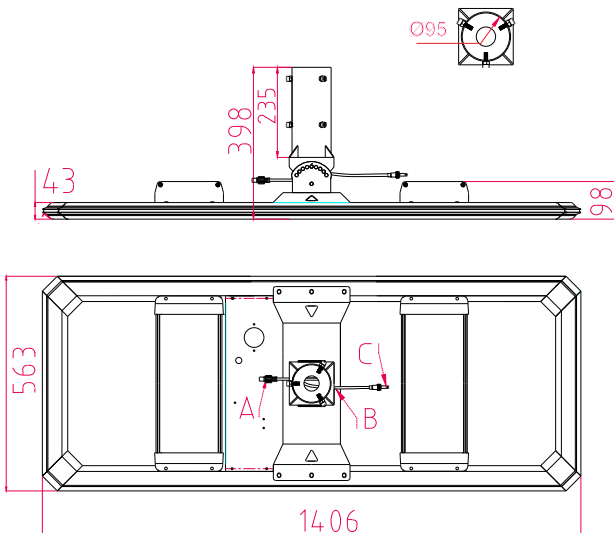


SSCORSO110
110W SOLAR PANEL
1100Wh BATTERY



Poles not included

Dimensions 1406x563x398mm
Weight 33.6kg

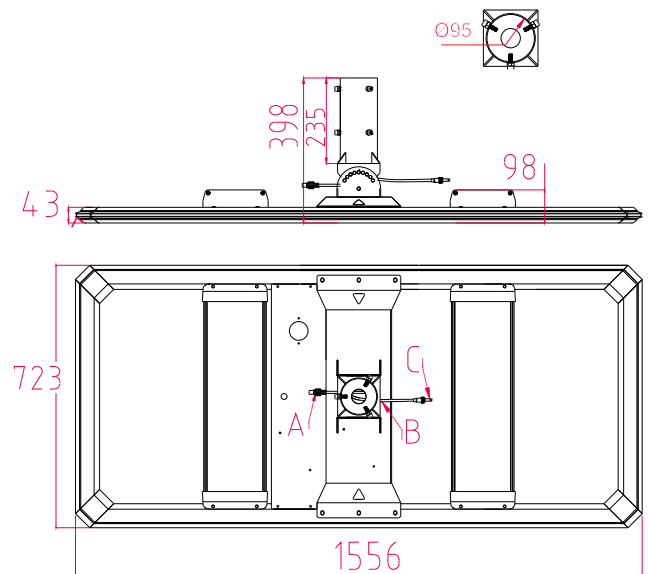


SSCORSO175
175W SOLAR PANEL
1690Wh BATTERY



Poles not included

Dimensions 1556x723x398mm
Weight 41.9kg





HOW TO SELECT THE CORRECT CORSO SOLAR ENGINE AND LIGHT HEADS TO SUIT YOUR INSTALLATION

Corso solar lighting systems are designed to reliably deliver 72 hours (3 days) autonomy. Tigerlight's specifications also aim to maximise battery performance over the long term by limiting the frequency of full battery discharges, which can adversely affect battery service life.

This is achieved by carefully balancing the size of the panel and accompanying battery, the light output required and the hours of operation.

There are 3 steps in this process:

1 Region where they are to be installed.

Australia's northern states generate more solar energy as they have greater average solar exposure than the southern states. The map of Australia's solar zones, below, is based on total sunlight hours from Bureau of Meteorology statistics. This base information underpins the specification of all the system's components.

2 Program options for illumination requirements

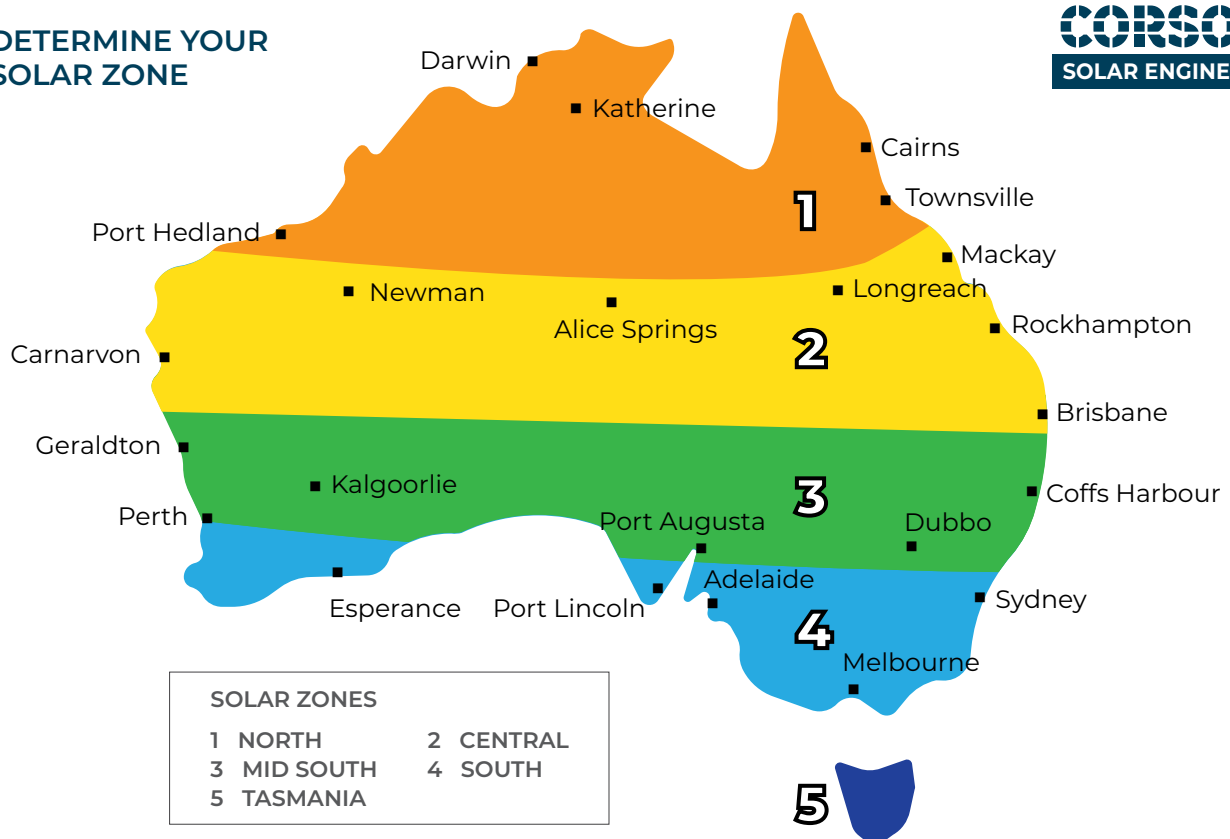
Corso Solar Engines and complementary Tigerlight light heads are programmable to meet your operational requirements, while maximising battery autonomy.

Inbuilt controls manage operating timing, percentage of maximum output and sensor operation, which must consider expected traffic levels.

3 Match the panel size to the light head/s to suit your needs

Refer to the table on the next page for lamp power possible for each size Corso Solar Engine in each solar zone. Please refer to the example highlighted within the table.

1 DETERMINE YOUR SOLAR ZONE



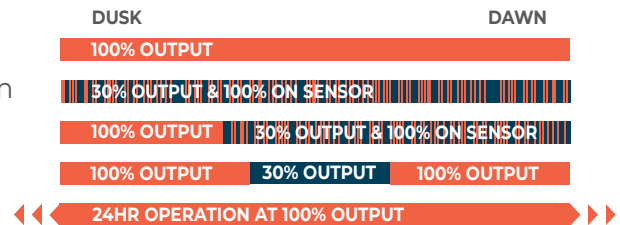
2 CHOOSE FROM FIVE PROGRAMMING OPTIONS



Operational requirements need to be determined next, in terms of both light output and hours of operation. The optimum light output and a lighting timetable are determined to balance maximum illuminance with battery autonomy to ensure reliability and performance.

Typical Programming options include:

- P1** 100% output - dusk to dawn
- P2** 30% output /100% with sensor - dusk to dawn
- P3** 100% 4 hrs then 30%/100% sensor to dawn
- P4** 100% 5 hrs, 30 % 4 hours, 100% 5 hours
- P5** 24hr operation without sensor



3 MATCH PANEL & OUTPUT OPTIONS FOR EACH SOLAR ZONE

		PROGRAMMING OPTIONS				
		P1	P2	P3	P4	P5
		W	W	W	W	W
ZONE 1 - NORTH	CORSO 55	13	26	19.5	16.25	6.5
	CORSO 110	25	50	37.5	31.25	12.5
	CORSO 175	40	60	60	50	20
ZONE 2 - CENTRAL	CORSO 55	10	20	15	12.5	5
	CORSO 110	20	40	30	25	10
	CORSO 175	33	60	50	40	16.5
ZONE 3 - MID SOUTH	CORSO 55	9	18	13.5	11.25	4.5
	CORSO 110	17	34	25.5	21.25	8.5
	CORSO 175	27	54	40.5	33.75	13.5
ZONE 4 - SOUTH	CORSO 55	7	14	10.5	8.75	3.5
	CORSO 110	13	26	19.5	16.25	6.5
	CORSO 175	20	40	30	25	10
ZONE 5 - TASMANIA	CORSO 55	5	10	7.5	6.25	2.5
	CORSO 110	9	18	13.5	11.25	4.5
	CORSO 175	15	30	22.5	18.75	7.5

NB Wattage data shown in table cross-references the projected solar power input by each size panel/battery in each zone, against the power output required by each program. These are estimates only and detailed calculations will be made in consultation with your Tigerlight representative.

The example highlighted in table above refers to a sample installation in Rockhampton, Qld. Solar Zone will be Zone 2 - Central.

In the example, program P2 is selected - 30% base output, and 100% upon sensor activation.

The 3 output options are highlighted for this example:

- CORSO 55 will power a 20W light for 3 days/nights
- CORSO 110 will power a 40W light (or 2 x 20W lights).
- CORSO 175 will power a 60W light (or 2 x 30W lights).



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