

# COMMERCIAL SOLAR PACKAGES

## STANDARD PERFORMANCE SPECIFICATION

### LOCATION – ADELAIDE

TOTAL NO. PANELS	2		4		6		10		16		20		24			32		40		50		60	
NO. BANKS OF PANELS	1	2	1	2	1	2	1	2	1	2	1	1	2	3	2	4	2	4	2	5	3	4	
Surface Collection Area sq.m	3.92	7.84	7.84	11.76	11.76	19.6	19.6	31.36	31.36	39.2	39.2	47	47	47	62.72	62.72	78.4	78.4	98	98	117.6	117.6	
Area On Roof sq.m	4	8	8	12	12	20	20	32	32	40	40	48	48	48	64	64	80	80	100	100	120	120	
Daily Energy Output Yearly Average Australis kW	11	22	22	33	33	55	55	88	88	110	110	132	132	132	176	176	220	220	275	275	330	330	
Panel Water Flow Per Bank l/s	0.05	0.05	0.1	0.075	0.15	0.125	0.25	0.2	0.4	0.25	0.5	0.6	0.3	0.2	0.4	0.2	0.5	0.25	0.625	0.25	0.5	0.375	
Total Flow Rate l/s	0.05	0.1	0.1	0.15	0.15	0.25	0.25	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.25	1.25	1.5	1.5	
Flow/Return Dia. mm	15	20	20	20	20	25	25	25	25	25	25	25	25	25	40	40	40	40	40	40	40	40	
Pressure Drop Through Panels kPa	0.42	0.84	0.42	1.26	0.63	2.10	1.05	3.36	1.68	4.20	2.10	5.04	2.52	1.68	3.36	1.68	4.20	2.10	5.25	2.10	4.20	3.15	
Panel Efficiency @ 45 °C %	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
Total Weight Empty kg	70	140	140	210	210	350	350	560	560	700	700	840	840	840	1120	1120	1400	1400	1750	1750	2100	2100	
Total Weight Full kg	74	148	148	222	222	370	370	592	592	740	740	888	888	888	1184	1184	1480	1480	1850	1850	2220	2220	
Operating Temp. Max. °C	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
Operating Temp. Min. °C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Temp. Differential Of Controller °C	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	
Circuit Pressure kPa Max. – open vented – Not cylinder pressure	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
Power supply V	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	
A	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Pump Power W When pump is running	70	70	70	115	115	115	115	250	250	250	250	250	250	250	250	250	250	250	250	250	290	290	

These figures are based on the collectors being:

- Due north orientation
- 20 degree roof gradient
- Edwards standard Australis model.

Radiation figures are taken from 'Data Handbook For Australian Designers'- Roy & Miller.

Revision Date: 08-03



# COMMERCIAL SOLAR PACKAGES

## STANDARD PERFORMANCE SPECIFICATION

### LOCATION – ALICE SPRINGS

TOTAL NO. PANELS	2		4		6		10		16		20		24			32		40		50		60	
NO. BANKS OF PANELS	1	2	1	2	1	2	1	2	1	2	1	1	2	3	2	4	2	4	2	5	3	4	
Surface Collection Area sq.m	3.92	7.84	7.84	11.76	11.76	19.6	19.6	31.36	31.36	39.2	39.2	47	47	47	62.72	62.72	78.4	78.4	98	98	117.6	117.6	
Area On Roof sq.m	4	8	8	12	12	20	20	32	32	40	40	48	48	48	64	64	80	80	100	100	120	120	
Daily Energy Output Yearly Average Australis kW	14.8	29.6	29.6	44.4	44.4	74	74	118.4	118.4	148	148	177	177	177	236.8	236.8	296	296	370	370	444	444	
Panel Water Flow Per Bank l/s	0.05	0.05	0.1	0.075	0.15	0.125	0.25	0.2	0.4	0.25	0.5	0.6	0.3	0.2	0.4	0.2	0.5	0.25	0.625	0.25	0.5	0.375	
Total Flow Rate l/s	0.05	0.1	0.1	0.15	0.15	0.25	0.25	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.25	1.25	1.5	1.5	
Flow/Return Dia. mm	15	20	20	20	20	25	25	25	25	25	25	25	25	25	40	40	40	40	40	40	40	40	
Pressure Drop Through Panels kPa	0.42	0.84	0.42	1.26	0.63	2.10	1.05	3.36	1.68	4.20	2.10	5.04	2.52	1.68	3.36	1.68	4.20	2.10	5.25	2.10	4.20	3.15	
Panel Efficiency @ 45 °C %	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
Total Weight Empty kg	70	140	140	210	210	350	350	560	560	700	700	840	840	840	1120	1120	1400	1400	1750	1750	2100	2100	
Total Weight Full kg	74	148	148	222	222	370	370	592	592	740	740	888	888	888	1184	1184	1480	1480	1850	1850	2220	2220	
Operating Temp. Max. °C	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
Operating Temp. Min. °C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Temp. Differential Of Controller °C	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	
Circuit Pressure kPa Max. – open vented – Not cylinder pressure	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
Power supply V	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	
A	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Pump Power W When pump is running	70	70	70	115	115	115	115	250	250	250	250	250	250	250	250	250	250	250	250	250	290	290	

These figures are based on the collectors being:

- Due north orientation
- 20 degree roof gradient
- Edwards standard Australis model.

Radiation figures are taken from 'Data Handbook For Australian Designers'- Roy & Miller.

Revision Date: 03-08



# COMMERCIAL SOLAR PACKAGES

## STANDARD PERFORMANCE SPECIFICATION

LOCATION – BRISBANE

TOTAL NO. PANELS	2		4		6		10		16		20		24			32		40		50		60	
NO. BANKS OF PANELS	1	2	1	2	1	2	1	2	1	2	1	1	2	3	2	4	2	4	2	5	3	4	
Surface Collection Area sq.m	3.92	7.84	7.84	11.76	11.76	19.6	19.6	31.36	31.36	39.2	39.2	47	47	47	62.72	62.72	78.4	78.4	98	98	117.6	117.6	
Area On Roof sq.m	4	8	8	12	12	20	20	32	32	40	40	48	48	48	64	64	80	80	100	100	120	120	
Daily Energy Output Yearly Average Australis kW	11.4	22.8	22.8	34.2	34.2	57	57	91.2	91.2	114	114	137	137	137	182.4	182.4	228	228	285	285	342	342	
Panel Water Flow Per Bank l/s	0.05	0.05	0.1	0.075	0.15	0.125	0.25	0.2	0.4	0.25	0.5	0.6	0.3	0.2	0.4	0.2	0.5	0.25	0.625	0.25	0.5	0.375	
Total Flow Rate l/s	0.05	0.1	0.1	0.15	0.15	0.25	0.25	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.25	1.25	1.5	1.5	
Flow/Return Dia. mm	15	20	20	20	20	25	25	25	25	25	25	25	25	25	40	40	40	40	40	40	40	40	
Pressure Drop Through Panels kPa	0.42	0.84	0.42	1.26	0.63	2.10	1.05	3.36	1.68	4.20	2.10	5.04	2.52	1.68	3.36	1.68	4.20	2.10	5.25	2.10	4.20	3.15	
Panel Efficiency @ 45 °C %	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
Total Weight Empty kg	70	140	140	210	210	350	350	560	560	700	700	840	840	840	1120	1120	1400	1400	1750	1750	2100	2100	
Total Weight Full kg	74	148	148	222	222	370	370	592	592	740	740	888	888	888	1184	1184	1480	1480	1850	1850	2220	2220	
Operating Temp. Max. °C	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
Operating Temp. Min. °C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Temp. Differential Of Controller °C	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	
Circuit Pressure kPa Max. – open vented – Not cylinder pressure	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
Power supply V	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	
A	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Pump Power W When pump is running	70	70	70	115	115	115	115	250	250	250	250	250	250	250	250	250	250	250	250	250	290	290	

These figures are based on the collectors being:

- Due north orientation
- 20 degree roof gradient
- Edwards standard Australis model.

Radiation figures are taken from 'Data Handbook For Australian Designers'- Roy & Miller.

Revision Date: 08-03



# COMMERCIAL SOLAR PACKAGES

## STANDARD PERFORMANCE SPECIFICATION

### LOCATION – CAIRNS

TOTAL NO. PANELS	2		4		6		10		16		20		24			32		40		50		60	
NO. BANKS OF PANELS	1	2	1	2	1	2	1	2	1	2	1	1	2	3	2	4	2	4	2	5	3	4	
Surface Collection Area sq.m	3.92	7.84	7.84	11.76	11.76	19.6	19.6	31.36	31.36	39.2	39.2	47	47	47	62.72	62.72	78.4	78.4	98	98	117.6	117.6	
Area On Roof sq.m	4	8	8	12	12	20	20	32	32	40	40	48	48	48	64	64	80	80	100	100	120	120	
Daily Energy Output Yearly Average Australis kW	14	28	28	42	42	70	70	112	112	140	140	168	168	168	224	224	280	280	350	350	420	420	
Panel Water Flow Per Bank l/s	0.05	0.05	0.1	0.075	0.15	0.125	0.25	0.2	0.4	0.25	0.5	0.6	0.3	0.2	0.4	0.2	0.5	0.25	0.625	0.25	0.5	0.375	
Total Flow Rate l/s	0.05	0.1	0.1	0.15	0.15	0.25	0.25	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.8	0.8	0.8	1.0	1.25	1.25	1.5	1.5	
Flow/Return Dia. mm	15	20	20	20	20	25	25	25	25	25	25	25	25	23	40	40	40	40	40	40	40	40	
Pressure Drop Through Panels kPa	0.42	0.84	0.42	1.26	0.63	2.10	1.05	3.36	1.68	4.20	2.10	5.04	2.52	1.68	3.36	1.68	4.20	2.10	5.25	2.10	4.20	3.15	
Panel Efficiency @ 45 °C %	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
Total Weight Empty kg	70	140	140	210	210	350	350	560	560	700	700	840	840	840	1120	1120	1400	1400	1750	1750	2100	2100	
Total Weight Full kg	74	148	148	222	222	370	370	592	592	740	740	888	888	888	1184	1184	1480	1480	1850	1850	2220	2220	
Operating Temp. Max. °C	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
Operating Temp. Min. °C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Temp. Differential Of Controller °C	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	
Circuit Pressure kPa Max. – open vented – Not cylinder pressure	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
Power supply V	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	
A	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Pump Power W When pump is running	70	70	70	115	115	115	115	250	250	250	250	250	250	250	250	250	250	250	250	250	290	290	

These figures are based on the collectors being:

- Due north orientation
- 20 degree roof gradient
- Edwards standard Australis model

Radiation figures are based on 'Data Handbook For Australian Designers'- Roy & Miller.

Revision Date: 08-03



**EDWARDS**  
—hot water—

# COMMERCIAL SOLAR PACKAGES

## STANDARD PERFORMANCE SPECIFICATION

### LOCATION – CANBERRA

TOTAL NO. PANELS	2		4		6		10		16		20		24			32		40		50		60	
NO. BANKS OF PANELS	1	2	1	2	1	2	1	2	1	2	1	1	2	3	2	4	2	4	2	5	3	4	
Surface Collection Area sq.m	3.92	7.84	7.84	11.76	11.76	19.6	19.6	31.36	31.36	39.2	39.2	47	47	47	62.72	62.72	78.4	78.4	98	98	117.6	117.6	
Area On Roof sq.m	4	8	8	12	12	20	20	32	32	40	40	48	48	48	64	64	80	80	100	100	120	120	
Daily Energy Output Yearly Average Australis kW	10.6	21.2	21.2	31.8	31.8	53	53	84.8	84.8	106	106	127	127	127	169.6	169.6	212	212	265	265	318	318	
Panel Water Flow Per Bank l/s	0.05	0.05	0.1	0.075	0.15	0.125	0.25	0.2	0.4	0.25	0.5	0.6	0.3	0.2	0.4	0.2	0.5	0.25	0.625	0.25	0.5	0.375	
Total Flow Rate l/s	0.05	0.1	0.1	0.15	0.15	0.25	0.25	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.25	1.25	1.5	1.5	
Flow/Return Dia. mm	15	20	20	20	20	25	25	25	25	25	25	25	25	25	40	40	40	40	40	40	40	40	
Pressure Drop Through Panels kPa	0.42	0.84	0.42	1.26	0.63	2.10	1.05	3.36	1.68	4.20	2.10	5.04	2.52	1.68	3.36	1.68	4.20	2.10	5.25	2.10	4.20	3.15	
Panel Efficiency @ 45 °C %	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
Total Weight Empty kg	70	140	140	210	210	350	350	560	560	700	700	840	840	840	1120	1120	1400	1400	1750	1750	2100	2100	
Total Weight Full kg	74	148	148	222	222	370	370	592	592	740	740	888	888	888	1184	1184	1480	1480	1850	1850	2220	2220	
Operating Temp. Max. °C	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
Operating Temp. Min. °C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Temp. Differential Of Controller °C	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	
Circuit Pressure kPa Max. – open vented – Not cylinder pressure	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
Power supply V	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	
A	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Pump Power W When pump is running	70	70	70	115	115	115	115	250	250	250	250	250	250	250	250	250	250	250	250	250	290	290	

These figures are based on the collectors being:

- Due north orientation
- 20 degree roof gradient
- Edwards standard Australis model.

Radiation figures are taken from 'Data Handbook For Australian Designers'- Roy & Miller.

Revision Date: 08-03



# COMMERCIAL SOLAR PACKAGES

## STANDARD PERFORMANCE SPECIFICATION

### LOCATION – HOBART

TOTAL NO. PANELS	2		4		6		10		16		20		24			32		40		50		60	
NO. BANKS OF PANELS	1	2	1	2	1	2	1	2	1	2	1	1	2	3	2	4	2	4	2	5	3	4	
Surface Collection Area sq.m	3.92	7.84	7.84	11.76	11.76	19.6	19.6	31.36	31.36	39.2	39.2	47	47	47	62.72	62.72	78.4	78.4	98	98	117.6	117.6	
Area On Roof sq.m	4	8	8	12	12	20	20	32	32	40	40	48	48	48	64	64	80	80	100	100	120	120	
Daily Energy Output Yearly Average Australis kW	8.8	17.6	17.6	26.4	26.2	44	44	70.4	70.4	88	88	105	105	105	140.8	140.8	176	176	220	220	264	264	
Panel Water Flow Per Bank l/s	0.05	0.05	0.1	0.075	0.15	0.125	0.25	0.2	0.4	0.25	0.5	0.6	0.3	0.2	0.4	0.2	0.5	0.25	0.625	0.25	0.5	0.375	
Total Flow Rate l/s	0.05	0.1	0.1	0.15	0.15	0.25	0.25	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.25	1.25	1.5	1.5	
Flow/Return Dia. mm	15	20	20	20	20	25	25	25	25	25	25	25	25	24	40	40	40	40	40	40	40	40	
Pressure Drop Through Panels kPa	0.42	0.84	0.42	1.26	0.63	2.10	1.05	3.36	1.68	4.20	2.10	5.04	2.52	1.68	3.36	1.68	4.20	2.10	5.25	2.10	4.20	3.15	
Panel Efficiency @ 45 °C %	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
Total Weight Empty kg	70	140	140	210	210	350	350	560	560	700	700	840	840	840	1120	1120	1400	1400	1750	1750	2100	2100	
Total Weight Full kg	74	148	148	222	222	370	370	592	592	740	740	888	888	888	1184	1184	1480	1480	1850	1850	2220	2220	
Operating Temp. Max. °C	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
Operating Temp. Min. °C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Temp. Differential Of Controller °C	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	
Circuit Pressure kPa Max. – open vented – Not cylinder pressure	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
Power supply V	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	
A	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Pump Power W When pump is running	70	70	70	115	115	115	115	250	250	250	250	250	250	250	250	250	250	250	250	250	290	290	

These figures are based on the collectors being:

- Due north orientation
- 20 degree roof gradient
- Edwards standard Australis model.

Radiation figures are taken from 'Data Handbook For Australian Designers'- Roy & Miller.

Revision Date: 08-03



# COMMERCIAL SOLAR PACKAGES

## STANDARD PERFORMANCE SPECIFICATION

### LOCATION – MELBOURNE

TOTAL NO. PANELS	2		4		6		10		16		20		24			32		40		50		60	
NO. BANKS OF PANELS	1	2	1	2	1	2	1	2	1	2	1	1	2	3	2	4	2	4	2	5	3	4	
Surface Collection Area sq.m	3.92	7.84	7.84	11.76	11.76	19.6	19.6	31.36	31.36	39.2	39.2	47	47	47	62.72	62.72	78.4	78.4	98	98	117.6	117.6	
Area On Roof sq.m	4	8	8	12	12	20	20	32	32	40	40	48	48	48	64	64	80	80	100	100	120	120	
Daily Energy Output Yearly Average Australis kW	9.8	19.6	19.6	29.4	29.4	49	49	78.4	78.4	98	98	117	117	117	156.8	156.8	196	196	245	245	294	294	
Panel Water Flow Per Bank l/s	0.05	0.05	0.1	0.075	0.15	0.125	0.25	0.2	0.4	0.25	0.5	0.6	0.3	0.2	0.4	0.2	0.5	0.25	0.625	0.25	0.5	0.375	
Total Flow Rate l/s	0.05	0.1	0.1	0.15	0.15	0.25	0.25	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.25	1.25	1.5	1.5	
Flow/Return Dia. mm	15	20	20	20	20	25	25	25	25	25	25	25	25	25	40	40	40	40	40	40	40	40	
Pressure Drop Through Panels kPa	0.42	0.84	0.42	1.26	0.63	2.10	1.05	3.36	1.68	4.20	2.10	5.04	2.52	1.68	3.36	1.68	4.20	2.10	5.25	2.10	4.20	3.15	
Panel Efficiency @ 45 °C %	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
Total Weight Empty kg	70	140	140	210	210	350	350	560	560	700	700	840	840	840	1120	1120	1400	1400	1750	1750	2100	2100	
Total Weight Full kg	74	148	148	222	222	370	370	592	592	740	740	888	888	888	1184	1184	1480	1480	1850	1850	2220	2220	
Operating Temp. Max. °C	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
Operating Temp. Min. °C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Temp. Differential Of Controller °C	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	
Circuit Pressure kPa Max. – open vented – Not cylinder pressure	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
Power supply V	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	
A	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Pump Power W When pump is running	70	70	70	115	115	115	115	250	250	250	250	250	250	250	250	250	250	250	250	250	290	290	

These figures are based on the collectors being:

- Due north orientation
- 20 degree roof gradient
- Edwards standard Australis model.

Radiation figures are taken from 'Data Handbook For Australian Designers'- Roy & Miller.

Revision Date: 08-03



# COMMERCIAL SOLAR PACKAGES

## STANDARD PERFORMANCE SPECIFICATION

LOCATION – PERTH

TOTAL NO. PANELS	2		4		6		10		16		20		24			32		40		50		60	
NO. BANKS OF PANELS	1	2	1	2	1	2	1	2	1	2	1	1	2	3	2	4	2	4	2	5	3	4	
Surface Collection Area sq.m	3.92	7.84	7.84	11.76	11.76	19.6	19.6	31.36	31.36	39.2	39.2	47	47	47	62.72	62.72	78.4	78.4	98	98	117.6	117.6	
Area On Roof sq.m	4	8	8	12	12	20	20	32	32	40	40	48	48	48	64	64	80	80	100	100	120	120	
Daily Energy Output Yearly Average Australis kW	12	24	24	36	36	60	60	96	96	120	120	144	144	144	192	192	240	240	300	300	360	360	
Panel Water Flow Per Bank l/s	0.05	0.05	0.1	0.15	0.15	0.125	0.25	0.2	0.4	0.25	0.5	0.6	0.3	0.2	0.4	0.2	0.5	0.25	0.625	0.25	0.5	0.375	
Total Flow Rate l/s	0.05	0.1	0.1	0.15	0.15	0.25	0.25	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.25	1.25	1.5	1.5	
Flow/Return Dia. mm	15	20	20	20	20	25	25	25	25	25	25	25	25	25	40	40	40	40	40	40	40	40	
Pressure Drop Through Panels kPa	0.42	0.84	0.42	1.26	0.63	2.10	1.05	3.36	1.68	4.20	2.10	5.04	2.52	1.68	3.36	1.68	4.20	2.10	5.25	2.10	4.20	3.15	
Panel Efficiency @ 45 °C %	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
Total Weight Empty kg	70	140	140	210	210	350	350	560	560	700	700	840	840	840	1120	1120	1400	1400	1750	1750	2100	2100	
Total Weight Full kg	74	148	148	222	222	370	370	592	592	740	740	888	888	888	1184	1184	1480	1480	1850	1850	2220	2220	
Operating Temp. Max. °C	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
Operating Temp. Min. °C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Temp. Differential Of Controller °C	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	
Circuit Pressure kPa Max. – open vented – Not cylinder pressure	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
Power supply V	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	
A	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Pump Power W When pump is running	70	70	70	115	115	115	115	250	250	250	250	250	250	250	250	250	250	250	250	250	290	290	

These figures are based on the collectors being:

- Due north orientation
- 20 degree roof gradient
- Edwards standard Australis model.

Radiation figures are taken from 'Data Handbook For Australian Designers'- Roy & Miller.

Revision Date: 08-03



# COMMERCIAL SOLAR PACKAGES

## STANDARD PERFORMANCE SPECIFICATION

LOCATION – SYDNEY

TOTAL NO. PANELS	2		4		6		10		16		20		24			32		40		50		60	
NO. BANKS OF PANELS	1	2	1	2	1	2	1	2	1	2	1	1	2	3	2	4	2	4	2	5	3	4	
Surface Collection Area sq.m	3.92	7.84	7.84	11.76	11.76	19.6	19.6	31.36	31.36	39.2	39.2	47	47	47	62.72	62.72	78.4	78.4	98	98	117.6	117.6	
Area On Roof sq.m	4	8	8	12	12	20	20	32	32	40	40	48	48	48	64	64	80	80	100	100	120	120	
Daily Energy Output Yearly Average Australis kW	11.2	22.4	22.4	33.6	33.6	56	56	89.6	89.6	112	112	134	134	134	179.2	179.2	224	224	280	280	336	336	
Panel Water Flow Per Bank l/s	0.05	0.05	0.1	0.075	0.15	0.125	0.25	0.2	0.4	0.25	0.5	0.6	0.3	0.2	0.4	0.2	0.5	0.25	0.625	0.25	0.5	0.375	
Total Flow Rate l/s	0.05	0.1	0.1	0.15	0.15	0.25	0.25	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.25	1.25	1.5	1.5	
Flow/Return Dia. mm	15	20	20	20	20	25	25	25	25	25	25	25	25	25	40	40	25	25	25	25	25	25	
Pressure Drop Through Panels kPa	0.42	0.84	0.42	1.26	0.63	2.10	1.05	3.36	1.68	4.20	2.10	5.04	2.52	1.68	3.36	1.68	4.20	2.10	5.25	2.10	4.20	3.15	
Panel Efficiency @ 45 °C %	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
Total Weight Empty kg	70	140	140	210	210	350	350	560	560	700	700	840	840	840	1120	1120	1400	1400	1750	1750	2100	2100	
Total Weight Full kg	74	148	148	222	222	370	370	592	592	740	740	888	888	888	1184	1184	1480	1480	1850	1850	2220	2220	
Operating Temp. Max. °C	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
Operating Temp. Min. °C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Temp. Differential Of Controller °C	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	
Circuit Pressure kPa Max. – open vented – Not cylinder pressure	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
Power supply V	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	
A	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Pump Power W When pump is running	70	70	70	115	115	115	115	250	250	250	250	250	250	250	250	250	250	250	250	250	290	290	

These figures are based on the collectors being:

- Due north orientation
- 20 degree roof gradient
- Edwards standard Australis model.

Radiation figures are taken from 'Data Handbook For Australian Designers'- Roy & Miller.

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