

Photovoltaic system

NOMINAL POWER EQUAL TO 5,76 kWp

PROJECT NAME:

RESIDENTIAL HOME IN ADELAIDE

Located in

ADELAIDE
HAYWARD AVE 245

Customer

JOHN SMITH

33 SYMONDS PL
5000 - ADELAIDE (SA)

TABLE OF ELECTRICAL CABLES OF THE SYSTEM

Designer

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SOLARWARE
120 JELLCOE ST
5000 - ADELAIDE (SA)

DATE:
ADELAIDE, 12/09/2012

SUMMARY OF CABLES

Summary of the cables used in the system					
Code	Manufacturer	Description	Formation	Section	Length
PRYG7P3 X010	Prysmian	FG7(O)R G-SETTE+ 0.6/1 kV 3x10	3x10	10,00 mm ²	6,93 m
PRYPSUN 010	Prysmian	FG21M21 P-Sun 1.2 kV 1x10	1x10	10,00 mm ²	7,06 m
PRYG7P1 X006	Prysmian	FG7(O)R G-SETTE+ 0.6/1 kV 1x6	1x6	6,00 mm ²	17,4 m
PRYPSUN 004	Prysmian	FG21M21 P-Sun 1.2 kV 1x4	1x4	4,00 mm ²	25,48 m
PRYPSUN 006	Prysmian	FG21M21 P-Sun 1.2 kV 1x6	1x6	6,00 mm ²	13,74 m

Summary of neutral cables used in the system					
Code	Manufacturer	Description	Formation	Section	Length
PRYG7P3 X010	Prysmian	FG7(O)R G-SETTE+ 0.6/1 kV 3x10	3x10	10,00 mm ²	6,93 m

Summary of the protection earth cables used in the system	
Section	Length
10 mm ²	10,46 m

LIST OF ELECTRICAL CABLES

Label: C1	Code: PRYG7P3X010	Description: From: Main panel To: Electricity grid
Length		3,41 m
Section		10,00 mm ²
No. conductors		1
Section PE		10,00 mm ²
No. conductors PE		1
Section Neutral		10,00 mm ²
No. Neutral conductors		1
Description		FG7(O)R G-SETTE+ 0.6/1 kV 3x10
Formation		3x10
Name		FG7(O)R
Cable type		MultiPolar
Material		Cu
Temperature		30,00 °C
Nominal voltage		230,00 V
Current		26,10 A

Voltage drop	0,18%
Power dissipation	10,55 W

Label: C2	Code: PRYG7P3X010	Description: From: Inverter:1 To: Main panel
Length		3,52 m
Section		10,00 mm ²
No. conductors		1
Section PE		10,00 mm ²
No. conductors PE		1
Section Neutral		10,00 mm ²
No. Neutral conductors		1
Description		FG7(O)R G-SETTE+ 0.6/1 kV 3x10
Formation		3x10
Name		FG7(O)R
Cable type		MultiPolar
Material		Cu
Temperature		30,00 °C
Nominal voltage		230,00 V
Current		26,10 A
Voltage drop		0,18%
Power dissipation		10,89 W

Label: C3	Code: PRYPSUN010	Description: From: QDC-DC - Inverter:1:1 To: Inverter:1
Length		3,53 m
Section		10,00 mm ²
No. conductors		1
Section PE		10,00 mm ²
No. conductors PE		1
Description		FG21M21 P-Sun 1.2 kV 1x10
Formation		1x10
Name		FG21M21
Cable type		UniPolar
Material		Cu
Temperature		30,00 °C
Nominal voltage		558,40 V
Current		10,12 A

Voltage drop	0,03%
Power dissipation	1,62 W

Label: C4	Code: PRYG7P1X006	Description: From: Str:2 To: QDC-DC - Inverter:1:1
Length		8,7 m
Section		6,00 mm ²
No. conductors		1
Section PE		6,00 mm ²
No. conductors PE		0
Description		FG7(O)R G-SETTE+ 0.6/1 kV 1x6
Formation		1x6
Name		FG7(O)R
Cable type		UniPolar
Material		Cu
Temperature		30,00 °C
Nominal voltage		558,40 V
Current		5,06 A
Voltage drop		0,06%
Power dissipation		1,65 W

Label: C5	Code: PRYPSUN004	Description: String cable: Str:2
Length		12,74 m
Section		4,00 mm ²
No. conductors		1
Section PE		4,00 mm ²
No. conductors PE		0
Description		FG21M21 P-Sun 1.2 kV 1x4
Formation		1x4
Name		FG21M21
Cable type		UniPolar
Material		Cu
Temperature		30,00 °C
Nominal voltage		558,40 V
Current		5,06 A
Voltage drop		0,13%
Power dissipation		3,63 W

Label: C6	Code: PRYPSUN006	Description: From: Str:1 To: QDC-DC - Inverter:1:1
Length		6,87 m
Section		6,00 mm ²
No. conductors		1
Section PE		6,00 mm ²
No. conductors PE		0
Description		FG21M21 P-Sun 1.2 kV 1x6
Formation		1x6
Name		FG21M21
Cable type		UniPolar
Material		Cu
Temperature		30,00 °C
Nominal voltage		558,40 V
Current		5,06 A
Voltage drop		0,05%
Power dissipation		1,31 W

Label: C7	Code: PRYPSUN004	Description: String cable: Str:1
Length		12,74 m
Section		4,00 mm ²
No. conductors		1
Section PE		4,00 mm ²
No. conductors PE		0
Description		FG21M21 P-Sun 1.2 kV 1x4
Formation		1x4
Name		FG21M21
Cable type		UniPolar
Material		Cu
Temperature		30,00 °C
Nominal voltage		558,40 V
Current		5,06 A
Voltage drop		0,13%
Power dissipation		3,63 W