SolarEdge Power Optimizer P370
DC Input Power: 370 watts
Maximum Input Voltage: 48 Vdc
MPPT Range: 8 to 48 Vdc
Maximum Short Circuit Current (isc): 11 A
cCurrent: 15 A per string
Maximum Output Voltage: 60 Vdc
Limitations: 8 to 25 Optimizers per string
Maximum Power Per String: 6000 W

PHOTOVOLTAIC SYSTEM EQUIPPED WITH INVERTER EMBEDDED AUTOMATIC RAPID SHUTDOWN KIT

CONDUCTOR
PV WIRE IN FREE AIR OR SHIN IN CONDUCT
A PVC SCHEDULE 40 CONDUCT
B PVC SCHEDULE 80 CONDUCT
C PVC SCHEDULE 40 CONDUCT
MAX BRANCH DC CONDUCTOR AMPACITY:
3650 V x 10 = 3650 W = 380 V x 9.67 A + 1258 x 0.9 = 1210 A
P370 MAXIMUM OUTPUT CURRENT = 15 A
10 AWG Cu 90\(^\circ\) RATED = 40 A x (0.9) = 36.4 A = 36 A
36 A + 1.2 A OK TO ORDER IAW NEC 690.8(B)(1-2)
MAX BRANCH AC CONDUCTOR AMPACITY:
25 A MAXIMUM CONT. OUTPUT CURRENT
10 AWG Cu 90\(^\circ\) RATED = 40 A x (0.9) = 36.4 A
36.4 A = 25 A OK TO ORDER IAW NEC 690.8(B)(1-2)

Solaredge SE6000H-US
Output: 25 A @ 240 V
NEMA 3R, UL LISTED, INTERNAL GFIs
INTEGRATED DC DISCONNECT WITH RAPID SHUTDOWN KIT

MAXIMUM POWER - Pmax (WpJ: 365 MAX CONTINUOUS OUTPUT CURRENT - 25A
10 AWG Cu 90\(^\circ\) RATED + 40 A

ELECTRICAL DATA PER MODULE (STC).
PV MODULE: HYUNDAI HiA-365HI

SYSTEM
Engineer
Details
Customer Info
Drawing
Drawing
Latin
Sheet
Project Details
DESIGN
SOLAR MODULE
HYUNDAI HI-A-365HI
SOLAREDGE SE6000H-US
25 A @ 240 V
NEMA 3R, UL LISTED, INTERNAL GFIs
INTEGRATED DC DISCONNECT WITH RAPID SHUTDOWN KIT

MAX BRANCH DC CONDUCTOR AMPACITY:
3650 V x 10 = 3650 W = 380 V x 9.67 A + 1258 x 0.9 = 1210 A
P370 MAXIMUM OUTPUT CURRENT = 15 A
10 AWG Cu 90\(^\circ\) RATED = 40 A x (0.9) = 36.4 A = 36 A
36 A + 1.2 A OK TO ORDER IAW NEC 690.8(B)(1-2)
MAX BRANCH AC CONDUCTOR AMPACITY:
25 A MAXIMUM CONT. OUTPUT CURRENT
10 AWG Cu 90\(^\circ\) RATED = 40 A x (0.9) = 36.4 A
36.4 A = 25 A OK TO ORDER IAW NEC 690.8(B)(1-2)

MAX BRANCH DC CONDUCTOR AMPACITY:
3650 V x 10 = 3650 W / 380 V x 9.67 A = 1258 x 0.9 = 1210 A
P370 MAXIMUM OUTPUT CURRENT = 15 A
10 AWG Cu 90\(^\circ\) RATED = 40 A x (0.9) = 36.4 A = 36 A
36 A + 1.2 A OK TO ORDER IAW NEC 690.8(B)(1-2)
MAX BRANCH AC CONDUCTOR AMPACITY:
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