

Sheet1

Series modules per string	4
ISC of string	9.71 A
ISC @ 91F	9.744956
NEC 690.8B Solar Derating	12.181195
Derating for continuous current	15.22649375
Type RHH 12 Gauge Wire	25 A
Derating for 33C ambient	24.00 A
Breaker	15.00 A
ISC of combined string @ 91F	29.234868 A
NEC 690.8B Solar Derating	36.543585 A
Derating for continuous current	45.67948125 A
Type THHN 6 Gauge Wire	75 A
Derating for 33C ambient	72 A
Derating for 4 conductors in conduit	57.6 A
Breaker	50 A
Charge controller max output current	55 A
Derating for continuous current	68.75 A
Type THWN 4 Gauge Wire	85 A
Derating for 33C ambient	79.9 A
Breaker	70 A
Inverter max input current	180 A
Derating for continuous current	225 A
Type THHN 2/0 Gauge Wire	260 A
Derating for 33C ambient	249.6 A
Breaker	250 A
Battery Assembly Voltage	48 V

DISAPPROVED
08/24/2020 7:52:27 AM
shelby
ELECTRICAL

4x 12V