



**Boucher- 5.04 kWdc,  
3.78 kWac, Milwaukee**

Conductor Schedule									Conduit Schedule	
ID	Sets	Phase Quantity	Color & Size	Insulation	Material	Voltage Drop	Neutral	Ground	Size	Type
ACC-01	1	2	BR #12 AWG	Trunk Cable	Cu	.72%	-	#10 THWN Cu	-	-
ACC-02	1	2	BR #10 AWG	THWN	Cu	.40%	-	#10 THWN Cu	3/4"	EMT
ACC-03	1	2	BR #10 AWG	THWN	Cu	.05%	#10 THWN Cu	#10 THWN Cu	3/4"	EMT
ACC-04	1	2	BR 3/0 AWG	THWN	Cu	.05%	3/0 THWN Cu	-	2"	EMT

Module Specifications	
Rec Solar 420AA Pure-R (QTY:12)	
STC Rating	420 W
Vmp	50 V
Imp	8.4 A
Voc	59.4 V
Isc	8.8 A

Array Specifications (5.04 kWdc Total)	
1 String of 12 Modules	
Max DC Power Rating	5.04 kW
Operating AC Voltage	240 V
Operating AC Current	15.72 A
Max AC System Voltage	240 V
AC Short Circuit Current	20 A

Inverter Specifications	
Enphase IQ7X	
Max AC Power Rating	315W / 3.78 kWac Total
Max DC Input Voltage	79.5 V
Max DC Input Current	10 A
Nominal AC Operating Voltage	240 V
Max AC Operating Current	1.31A Each / 15.72 A Total

Customer: David Boucher  
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City: Milwaukee  
State: WI  
Zip Code: 53208  
Contact: David Boucher  
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Project Number: 23R-197  
System Size: 5.04 kWdc

Designer: Mike Gietman  
One Line Diagram

Revision: 1 Date: 12.5.23