

The Inverters will be set to have and values as per AS 4777	
a. Over & under voltage for the primary protection	Overvoltage 1: 265V Maximum 2 second operation time Overvoltage 2: 275V 0.2 second operation time Undervoltage1: 180V Maximum 11 second operation time Undervoltage2: 70V Maximum 2 second operation time
b. Sustained over voltage (10 minute average)	258V Within 3 second operation time
c. Over & under frequency for the primary protection	Overfrequency: 52 Hz 0.2 second operation time Underfrequency: 47 Hz Maximum 2 second operation time
d. Inverter reconnection time	60 s

Table: Volt-Watt response mode settings		
Reference	Voltage	Max. Value P/Prated (%)
V1	253	100%
V2	260	20%
Table: Volt-VAR response mode Settings		
Reference	Voltage	VAR % of rated VA
V1	207	44% leading
V2	220	0
V3	240	0
V4	258	60% leading

MAINS PRO TRIP SETTINGS					
Setting	Setting Point Group	Set Point Name	Value	Step	Unit
Overvoltage Limit 1	V<>	V>	265	1	V
OvervoltageDelay 1	V<>	V>del	2.0	0.01	s
Overvoltage Limit 2	V<>	V>>	275	1	V
OvervoltageDelay 2	V<>	V>>del	0.2	0.01	s
Undervoltage Limit 1	V<>	V<	180	1	V
UndervoltageDelay 1	V<>	V<del	11	0.01	s
Undervoltage Limit 2	V<>	V<<	70	1	V
UndervoltageDelay 2	V<>	V<<del	2.0	0.01	s
Overvoltage (10min Average)	V<>	Avg V>	258	1	V
Overfrequency Limit 1	f<>	f>	52	0.1	Hz
Overfrequency Delay 1	f<>	f>delay	2.0	0.01	s
Overfrequency Limit 2	f<>	f>>	0	0.1	Hz
Overfrequency Delay 2	f<>	f>>delay	0	0.01	s
Underfrequency Limit 1	f<>	f<	47	0.1	Hz
Underfrequency Delay 1	f<>	f<delay	2.0	0.01	s
Underfrequency Limit 2	f<>	f<<	0	0.1	Hz
Underfrequency Delay 2	f<>	f<<delay	0	0.01	s
Vector Shift Limit	LOM	Vs Limit	8	1	Degrees
ROCOF Limit	LOM	ROCOF	4	1	Hz/s
ROCOF Filter	LOM	ROCOF Filt	25	1	Cycles
ROCOF Delay	LOM	ROCOF Del	0.25	1	s
Delay of Vector shift and ROCOF evaluation after measured voltage connection	LOM	LOM init delay	1	1	s
Vector Shift and ROCOF signalization time (trip time)	LOM	LOM trip delay	1	1	s
Measurement Range	Basic	Uin	230/400V	-	-
Measured System	Basic	System	3ph		
Display Timeout	Basic	DispT	0	1	minute
Automatic Fault reset enabling	Basic	Auto FR	Enabled	-	-
Automatic Fault reset timer	Basic	Auto FR Delay	60	1	s
Trip at the unit startup	Basic	Start trip	Enabled	-	-
Common impulse length	Basic	Impulse Len	3	1	s

CONSULTANT

CLIENTS

DRAW BY

PROJECT

SHEET TITLE

SHEET NAME

NOTES

1. All works shall comply with: AS3000, AS3006, AS5033, AS4777, CEC Guidelines, Supply Authority Service & Installation Rules and local authority guidelines.

2. Ensure system is labelled to AS5033, AS4777.1, CEC guidelines and relevant state requirements.

3. POC design and material supply should be in line with connection agreement.

SCALE

1 mm = 1000 mm

COORDINATION

☒ Electrical ☐ Mechanical ☐ Other
☒ Structural ☐ Data

☐ FOR CONSTRUCTION

☐ PROGRESS DRAWING

REVISION	REMARKS
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REVIEW	DS APPROVAL

REVISION

V 1.0

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