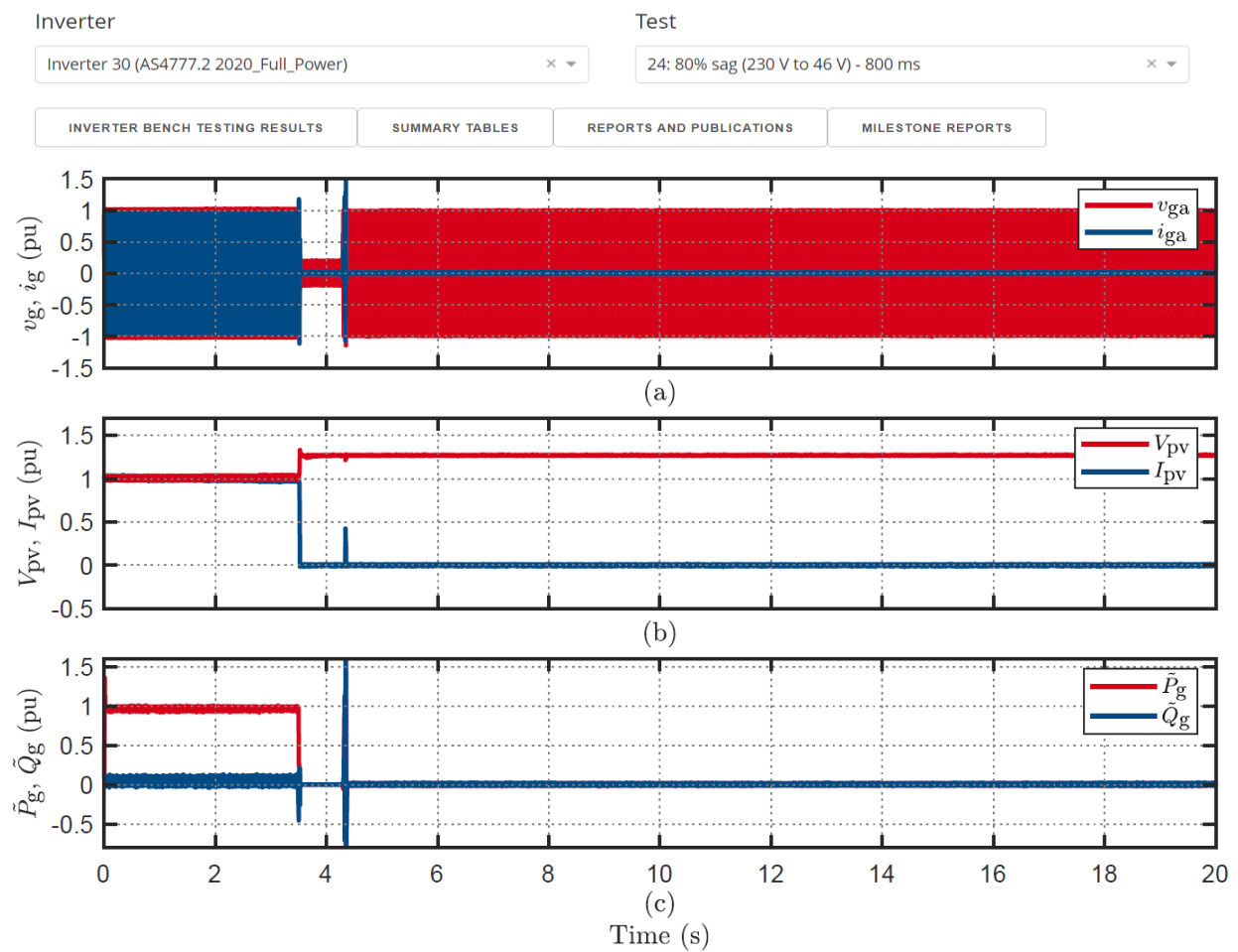


# Comparison of Inverters Response to Voltage Sag at 50% and 100% Power

Inverter 30: Response at 100% power level

## Addressing Barriers to Efficient Renewable Integration

### Voltage Sag tests



## Inverter 30: Response at 50% power level

### Addressing Barriers to Efficient Renewable Integration

#### Voltage Sag tests

Inverter

Inverter 30 (AS4777.2 2020\_Half\_Power)

Test

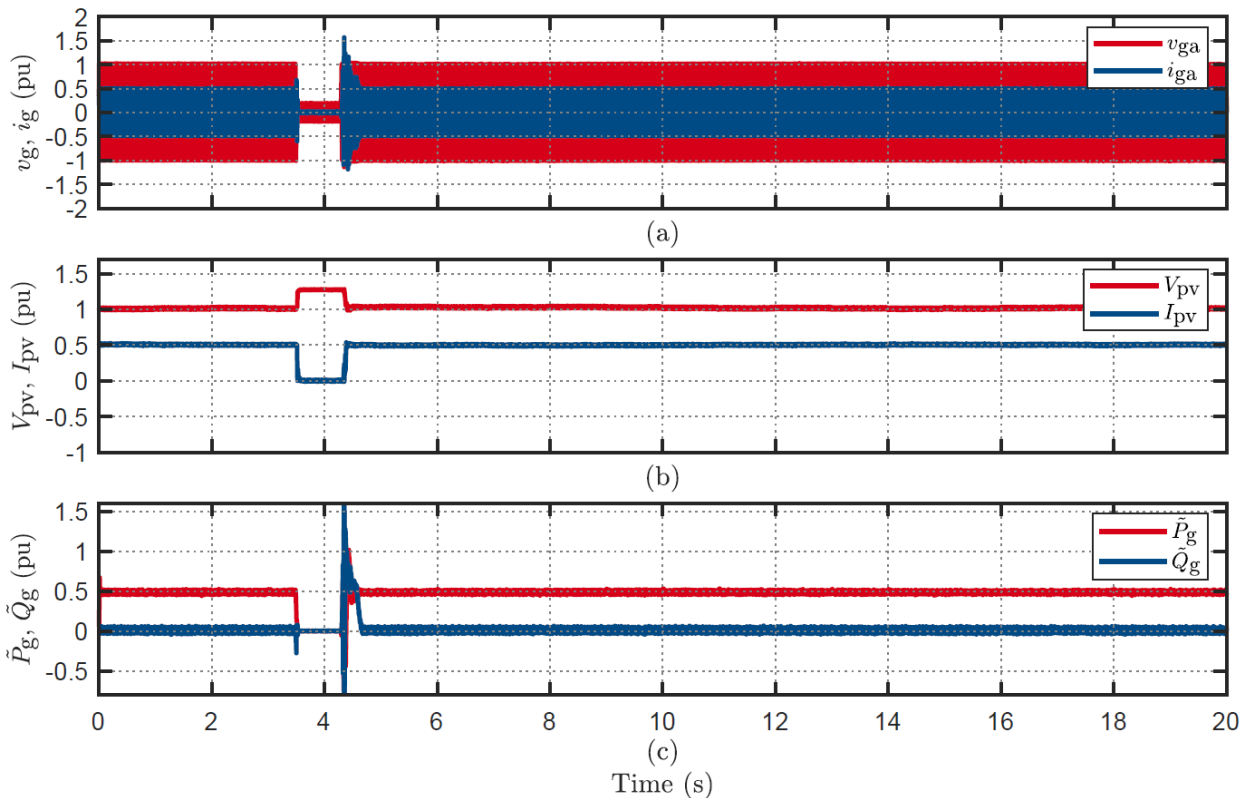
24: 80% sag (230 V to 46 V) - 800 ms

INVERTER BENCH TESTING RESULTS

SUMMARY TABLES

REPORTS AND PUBLICATIONS

MILESTONE REPORTS



#### Summary of inverter 30 at full and half power

##### inverter 30 (2020) Full Power

Duration (ms)	Voltage magnitude during the sag (p.u.)						
	0.8	0.7	0.6	0.5	0.4	0.3	0.2
80	ride-through	ride through	ride through	ride through	ride through	ride through	ride through
120	ride through	ride through	ride through	ride through	ride through	ride through	ride through
220	ride through	ride through	ride through	ride through	ride through	ride through	ride through
800	-	-	-	-	-	-	Disconnect

##### inverter 30 (2020) Half Power

Duration (ms)	Voltage magnitude during the sag (p.u.)						
	0.8	0.7	0.6	0.5	0.4	0.3	0.2
80	ride-through	ride through	ride through	ride through	ride through	ride through	ride through
120	ride through	ride through	ride through	ride through	ride through	ride through	ride through
220	ride through	ride through	ride through	ride through	ride through	ride through	ride through
800	-	-	-	-	-	-	ride through

Inverter 38: Response at 100% power level

Addressing Barriers to Efficient Renewable Integration

Voltage Sag tests

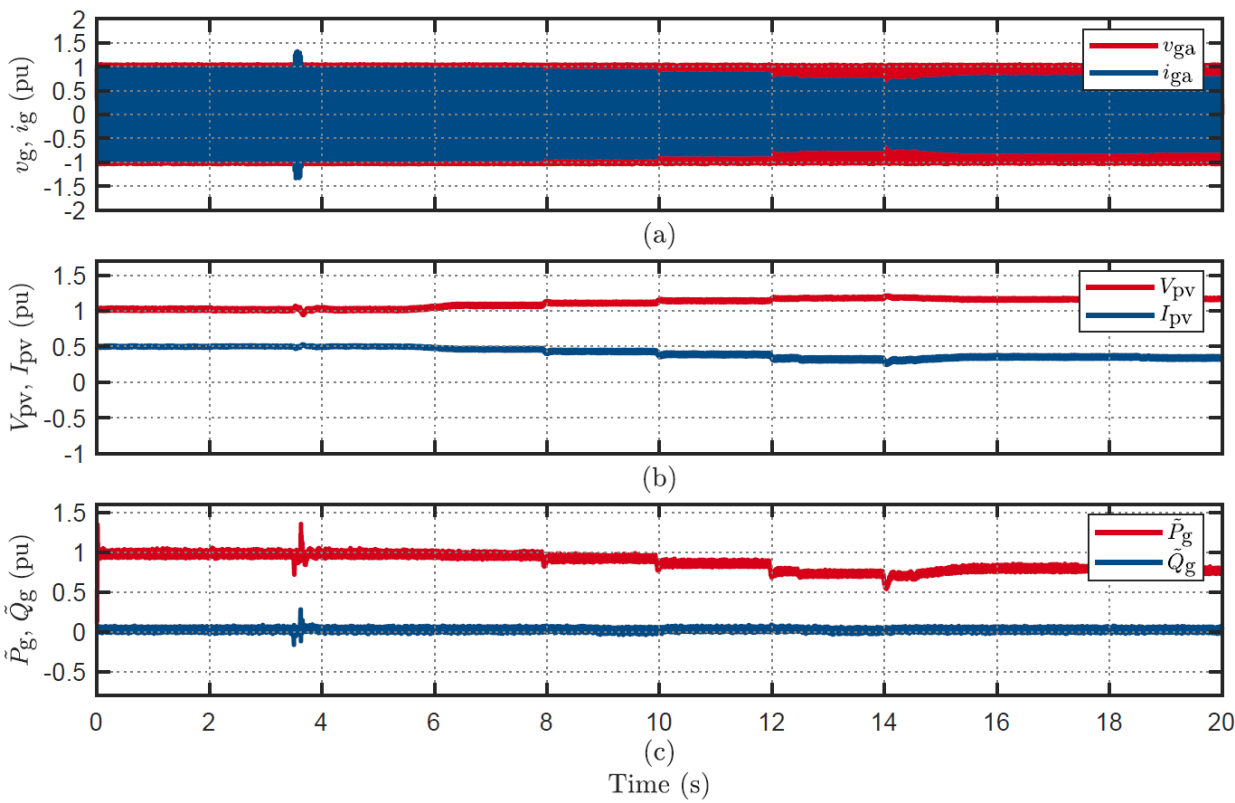
Inverter

Inverter 38 (AS4777.2 2020\_Full\_Power) × ▾

Test

7: 30% sag (230 V to 161 V) - 120 ms × ▾

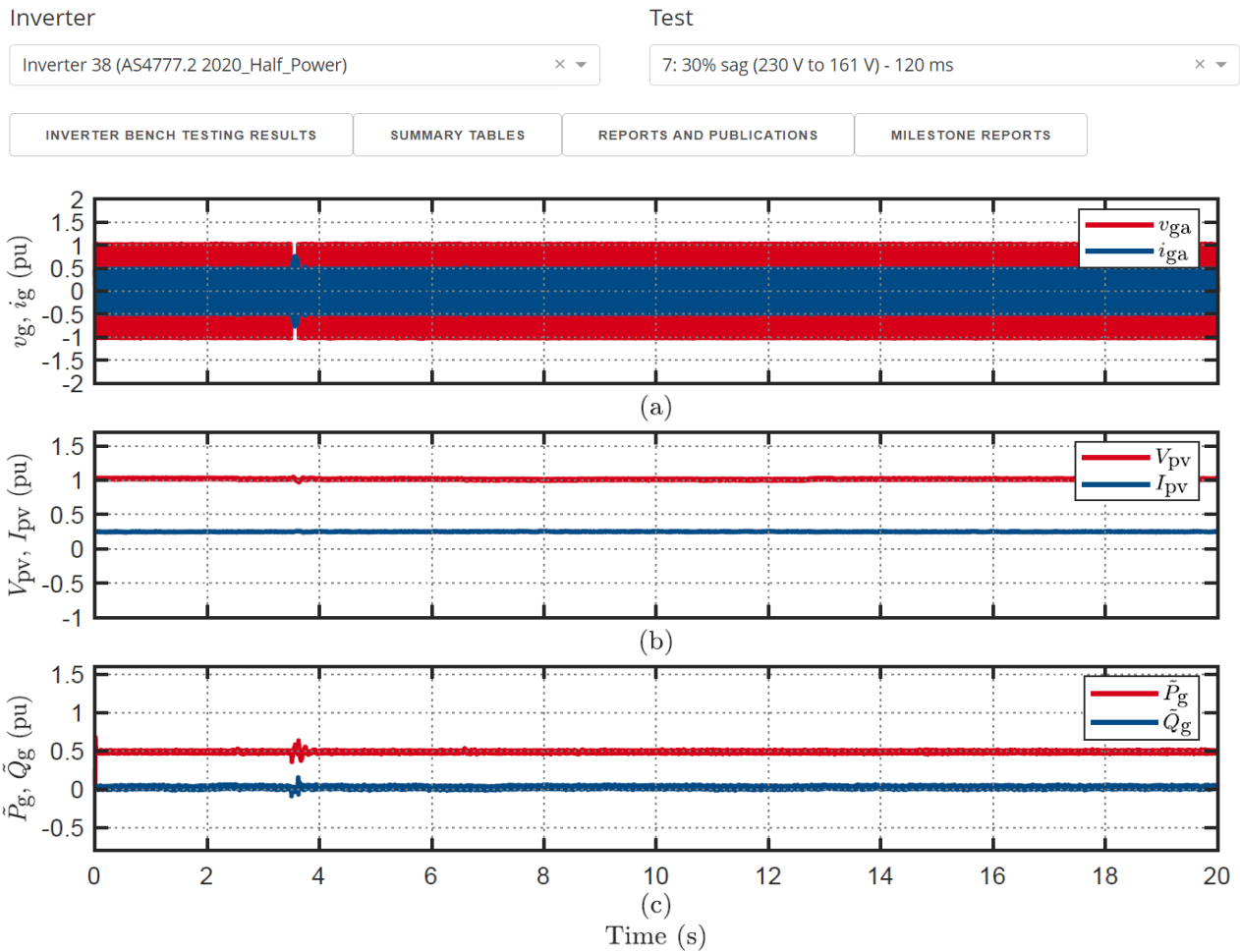
INVERTER BENCH TESTING RESULTS SUMMARY TABLES REPORTS AND PUBLICATIONS MILESTONE REPORTS



Inverter 38: Response at 50% power level

Addressing Barriers to Efficient Renewable Integration

Voltage Sag tests



Summary of inverter 30 at full and half power

inverter 38 (2020) Full Power

Duration (ms)	Voltage magnitude during the sag (p.u.)						
	0.8	0.7	0.6	0.5	0.4	0.3	0.2
80	ride-through	Power curtail	Power curtail	Power curtail	Power curtail	Power curtail	Power curtail
120	ride through	Power curtail	Power curtail	Power curtail	Power curtail	Power curtail	Power curtail
220	ride through	Power curtail	Power curtail	Power curtail	Power curtail	Power curtail	Power curtail
800	-	-	-	-	-	-	Power curtail

inverter 38 (2020) Half Power

Duration (ms)	Voltage magnitude during the sag (p.u.)						
	0.8	0.7	0.6	0.5	0.4	0.3	0.2
80	ride-through	ride-through	ride-through	ride-through	ride-through	ride-through	Power curtail
120	ride through	ride through	ride through	ride through	ride through	Power curtail	Power curtail
220	ride through	ride through	ride through	ride through	ride through	Power curtail	Power curtail
800	-	-	-	-	-	-	Power curtail