LPEA Interconnection Inverter Settings Checklist

Below is a summary of the inverter settings required by LPEA's Interconnection Standard. Prior to the final Interconnection inspection, please review and record your inverter values in the indicated sections below.

Standard 2.2b – Voltage Trip and Ride-Through

Region	Voltage at Point of Common Coupling (% Nominal Voltage)	Ride-Through Until Seconds (cycles)	Operating Mode	Maximum Trip Time Seconds (cycles)	Maximum Trip Time Recorded (seconds)
High Voltage 2 (HV2)	V >120	-	-	0.16 (9.6)	
High Voltage 1 (HV1)	110 < V < 120	12 (720)	Momentary Cessation	13 (780)	
Near Nominal (NN)	88 < V < 110	Indefinite	Continuous Operation	Not Applicable	-
Low Voltage 1 (LV1)	70 < V < 88	20 (1200)	Mandatory Operation	21 (1260)	
Low Voltage 2 (LV2)	50 < V < 70	10 (600)	Mandatory Operation	11 (660)	
Low Voltage 3 (LV3)	V < 50	1 (60)	Momentary Cessation	1.5 (90)	

Standard 2.2f – Frequency

System Frequency Default Settings (Hz)	Ride Through Until (seconds)	Ride Through Operational Mode	Maximum Trip Time (seconds)	Maximum Trip Time Recorded (seconds)
f > 62	No Ride Through	Not Applicable	0.16 (9.6)	
60.5 < f < 62	299 (17940)	Mandatory Operation	300 (18000)	
58.5 < f < 60.5	Indefinite	Continuous Operation	Not Applicable	-
57.0 < f < 58.5	299 (17940)	Mandatory Operation	300 (18000)	
f < 57.0	No Ride Through	Not Applicable	0.16 (9.6)	

Standard 2.2g – Harmonics

Individual harmonic order, h	Total demand (odd harmonics) Max Distortion (%)	Total demand (odd harmonics) Recorded Max Distortion (%)
h < 11	4	
11 ≤ h < 17	2	
23 ≤ h < 23	1.5	
23 ≤ h < 35	0.6	
35 ≤ h	0.3	
Total demand distortion	5	

Standard 2.2j – Dynamic Volt/VAR Settings

Voltage Value % (*240 V*)	Reactive Power Value	Operation	Reactive Power Value Recorded (%)
92.00% (*220.80 V*)	30%	Reactive Power Injection	
96.70% (*232.08 V*)	0	Unity Power Factor	
103.30% (*247.92 V*)	0	Unity Power Factor	
107.00% (*256.80 V*)	30%	Reactive Power Consumption	

Standard 2.2l – Recommended Frequency-Watt Settings

System Frequency (Hz)	Active Power Output Produced by the Inverter	Active Power Output Produced by the Inverter Recorded
f > 60.1	-50% of real power nameplate rating per hertz (5% of real power nameplate rating reduction per 0.1 hertz)	
f < 59.9	+50% of real power nameplate rating per hertz (5% of real power nameplate rating increase per 0.1 hertz)	
Open loop response time	5 seconds	

Standard 2.2m – Voltage-Watt Settings

Voltage Value % (*240 V*)	Active Power Value	Active Power Value Recorded (%)
105.00% (*252.00 V*)	100%	
107.00% (*256.80 V*)	0%	