



Recommended Settings for Inverters

Recommended Settings for Inverters (As per the GM meeting held on 2025-02-25)

Parameter	Plant capacity Less than 1 MW			Plant capacity more than 1MW		
Voltage set points of PV inverters for Sustained Operation	The inverter shall remain in operation provided that the 10-minute average voltage does not exceed 106% of the nominal voltage and no system faults are detected. If the 10-minute average voltage surpasses this threshold, the inverter shall disconnect from the grid or cease power generation within 3 seconds.			The inverter shall remain in operation provided that the 10-minute average voltage does not exceed 105% of the nominal voltage and no system faults are detected. If the 10-minute average voltage surpasses this threshold, the inverter shall disconnect from the grid or cease power generation within 3 seconds.		
Voltage set points of PV inverters for Emergency Operation	Shall Trip function	Voltage /Pu	Clearing time /Sec	Shall Trip function	Voltage /Pu	Clearing time /Sec
	OV2	1.2	0.16	OV2	1.2	0.16
	OV1	1.15	2	OV1	1.15	5
	UV1	0.7	10	UV1	0.7	21
	UV2	0.45	0.32	UV2	0.45	5
Voltage ride-through function	LVRT –Activate (operating modes as follows) *			LVRT –Activate (operating modes as follows) *		
	Voltage range	Minimum Time periods which the plant must be ride through		Voltage range	Minimum Time periods which the plant must be ride through	
	0.9 <= V < 1.0	infinite		0.9 <= V < 1.0	infinite	
	0.85 <= V < 0.9	3 min		0.85 <= V < 0.9	3 min	
	0.8 <= V < 0.85	2.5 s		0.8 <= V < 0.85	2.5 s	
	0 < V < 0.8	As per function, the trip time shall linearly vary from 0.14 s to 1.2 s		0 < V < 0.8	As per function, the trip time shall linearly vary from 0.14 s to 1.2 s	
	0 = V	0.14 s		0 = V	0.14 s	
	*Clause 3.17.3 Fault ride through defined in Grid connection code July 2024.			*Clause 3.17.3 Fault ride through defined in Grid connection code July 2024.		
Frequency set points of PV inverter	Frequency Range /Hz	Clearing time /Sec		Frequency Range /Hz	Clearing time /Sec	
	More than 52.0	0.2		More than 52.0	0.2	
	47=< f <= 52.0	infinite		47=< f <= 52.0	infinite	
	47<f	0.2		47<f	0.2	
Criteria for reconnecting and entering to service	Permit service	enabled		Permit service	enabled	
	Applicable voltage within the range	0.94<V<1.06		Applicable voltage within the range	0.95<V<1.05	
	Frequency within the range	49.5 < f < 50.5Hz		Frequency within the range	49.5 < f < 50.5 Hz	
	Minimum delay	600 s		Minimum delay	600 s	

	Enable enter service ramp control to have the duration of the enter service period with a linear ramp of 900 s Ramp rate= Name plate value/900s	Enable enter service ramp control to have the duration of the enter service period with the linear ramp of 900 s. Ramp rate= Name plate value/900s
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