

Parameter	Unit	Value	Min	Max	In Valid Range?	Category
NP_P_MAX	W					Nameplate information
NP_P_MAX_OVER_PF	W					Nameplate information
NP_OVER_PF						Nameplate information
NP_P_MAX_UNDER_PF	W					Nameplate information
NP_UNDER_PF						Nameplate information
NP_VA_MAX	VA					Nameplate information
NP_NORMAL_OP_CAT						Nameplate information
NP_ABNORMAL_OP_CAT						Nameplate information
NP_Q_MAX_INJ	VAr					Nameplate information
NP_Q_MAX_ABS	VAr					Nameplate information
NP_P_MAX_CHARGE	W					Nameplate information
NP_APPARENT_POWER_CHARGE_MAX	VA					Nameplate information
NP_AC_V_NOM	Vac					Nameplate information
NP_AC_V_MAX	Vac					Nameplate information
NP_AC_V_MIN	Vac					Nameplate information
NP_SUPPORTED_MODES						Nameplate information
NP_REACTIVE_SUSCEPTANCE	Siemens					Nameplate information
NP_MANUFACTURER						Nameplate information
NP_MODEL						Nameplate information
NP_SERIAL_NUM						Nameplate information
NP_FW_VER						Nameplate information
AP_LIMIT_ENABLE		DISABLED				Maximum active power parameters
AP_LIMIT	P p.u.		-1	1		Maximum active power parameters
ES_PERMIT_SERVICE		ENABLED				Enter service after trip parameters
ES_V_LOW	V p.u.	0.917	0.88	0.95	Yes	Enter service after trip parameters
ES_V_HIGH	V p.u.	1.05	1.05	1.06	Yes	Enter service after trip parameters
ES_F_LOW	Hz	59.5	59	59.9	Yes	Enter service after trip parameters
ES_F_HIGH	Hz	60.1	60.1	61	Yes	Enter service after trip parameters
ES_DELAY	s	15	0	600	Yes	Enter service after trip parameters
ES_RANDOMIZED_DELAY	s	300	0	1000	Yes	Enter service after trip parameters
ES_RAMP_RATE	s	60	0	1000	Yes	Enter service after trip parameters
CONST_PF_MODE_ENABLE		DISABLED				Constant power factor mode parameters

CONST_PF_EXCITATION							Constant power factor mode parameters
CONST_PF			0.9	1			Constant power factor mode parameters
CONST_Q_MODE_ENABLE		DISABLED					Constant reactive power mode parameters
CONST_Q	VAr p.u.		-1	1			Constant reactive power mode parameters
QV_MODE_ENABLE		ENABLED					Voltage-reactive power mode parameters
QV_VREF	V p.u.	1	0.95	1.05	Yes		Voltage-reactive power mode parameters
QV_VREF_AUTO_MODE		DISABLED					Voltage-reactive power mode parameters
QV_VREF_TIME	s		300	5000			Voltage-reactive power mode parameters
QV_CURVE_V2	V p.u.	0.98	0.97	1	Yes		Voltage-reactive power mode parameters
QV_CURVE_Q2	VAr p.u.	0	-1	1	Yes		Voltage-reactive power mode parameters
QV_CURVE_V3	V p.u.	1.02	1	1.03	Yes		Voltage-reactive power mode parameters
QV_CURVE_Q3	VAr p.u.	0	-1	1	Yes		Voltage-reactive power mode parameters
QV_CURVE_V1	V p.u.	0.92	0.82	0.98	Yes		Voltage-reactive power mode parameters
QV_CURVE_Q1	VAr p.u.	0.44	0	1	Yes		Voltage-reactive power mode parameters
QV_CURVE_V4	V p.u.	1.08	1.02	1.18	Yes		Voltage-reactive power mode parameters
QV_CURVE_Q4	VAr p.u.	-0.44	-1	0	Yes		Voltage-reactive power mode parameters
QV_OLRT	s	5	1	90	Yes		Voltage-reactive power mode parameters
QP_MODE_ENABLE		DISABLED					Active power-reactive power mode parameters
QP_CURVE_P3_GEN	P p.u.		0.6	1			Active power-reactive power mode parameters
QP_CURVE_P2_GEN	P p.u.		0.4	0.8			Active power-reactive power mode parameters
QP_CURVE_P1_GEN	P p.u.		0	0.7			Active power-reactive power mode parameters
QP_CURVE_P1_LOAD	P p.u.		-0.7	0			Active power-reactive power mode parameters
QP_CURVE_P2_LOAD	P p.u.		-0.8	-0.4			Active power-reactive power mode parameters
QP_CURVE_P3_LOAD	P p.u.		-1	-0.5			Active power-reactive power mode parameters
QP_CURVE_Q3_GEN	VAr p.u.		-1	1			Active power-reactive power mode parameters
QP_CURVE_Q2_GEN	VAr p.u.		-1	1			Active power-reactive power mode parameters
QP_CURVE_Q1_GEN	VAr p.u.		-1	1			Active power-reactive power mode parameters
QP_CURVE_Q1_LOAD	VAr p.u.		-1	1			Active power-reactive power mode parameters
QP_CURVE_Q2_LOAD	VAr p.u.		-1	1			Active power-reactive power mode parameters
QP_CURVE_Q3_LOAD	VAr p.u.		-1	1			Active power-reactive power mode parameters
PV_MODE_ENABLE		ENABLED					Voltage-active power mode parameters
PV_CURVE_V1	V p.u.	1.06	1.05	1.09	Yes		Voltage-active power mode parameters
PV_CURVE_P1	P p.u.	1	1	1	Yes		Voltage-active power mode parameters

PV_CURVE_V2	V p.u.	1.1	1.06	1.1	Yes	Voltage-active power mode parameters
PV_CURVE_P2	P p.u.	0	-1	1	Yes	Voltage-active power mode parameters
PV_OLRT	s	10	0.5	60	Yes	Voltage-active power mode parameters
OV2_TRIP_V	V p.u.	1.2	1.2	1.2	Yes	Voltage trip parameters
OV2_TRIP_T	s	0.16	0.16	0.16	Yes	Voltage trip parameters
OV1_TRIP_V	V p.u.	1.1	1.1	1.2	Yes	Voltage trip parameters
OV1_TRIP_T	s	13	1	13	Yes	Voltage trip parameters
UV1_TRIP_V	V p.u.	0.88	0	0.88	Yes	Voltage trip parameters
UV1_TRIP_T	s	21	2	50	Yes	Voltage trip parameters
UV2_TRIP_V	V p.u.	0.5	0	0.5	Yes	Voltage trip parameters
UV2_TRIP_T	s	2	0.16	21	Yes	Voltage trip parameters
OF2_TRIP_F	Hz	62	61.8	66	Yes	Frequency trip parameters
OF2_TRIP_T	s	0.16	0.16	1000	Yes	Frequency trip parameters
OF1_TRIP_F	Hz	61.2	61	66	Yes	Frequency trip parameters
OF1_TRIP_T	s	300	180	1000	Yes	Frequency trip parameters
UF1_TRIP_F	Hz	58.5	50	59	Yes	Frequency trip parameters
UF1_TRIP_T	s	300	180	1000	Yes	Frequency trip parameters
UF2_TRIP_F	Hz	56.5	50	57	Yes	Frequency trip parameters
UF2_TRIP_T	s	0.16	0.16	1000	Yes	Frequency trip parameters
PF_DBOF	Hz	0.036	0.017	1	Yes	Frequency-active power mode parameters
PF_DBUF	Hz	0.036	0.017	1	Yes	Frequency-active power mode parameters
PF_KOF		0.05	0.02	0.05	Yes	Frequency-active power mode parameters
PF_KUF		0.05	0.02	0.05	Yes	Frequency-active power mode parameters
PF_OLRT	s	5	0.2	10	Yes	Frequency-active power mode parameters
MC_HVRT_V1	V p.u.	1.1			Yes	Momentary cessation parameters
MC_LVRT_V1	V p.u.	0.5			Yes	Momentary cessation parameters