Running param setting



Warning:

Password required-- only for access-authorized engineer. Un-authorized access may avoid the warranty. The initial password is 1234.

	Pass	Word
	* *	* *
	Pic 1.01 P	assword
ActiveP	0%	Vref 0,0V
Q-Mode	OFF <<	ReactP 0.0% <<
PF	-1,000	Fun_RCD OFF <<
Fun-ISO	OFF <<	SelfCheck 0S
Island	OFF <<	Limiter OFF
Meter	OFF	Feed-in 0% <<
MPPT Num	0	ARC ON
WindTurbin	≥ <<	OF-Derate OFF <-
UF-Uprate	OFF <-	WGra 0,0% <<
WGra 0,	.000×	WGraStr 0,0%
PU	ON	LURT OFF
PowerLim	< <	HURT OFF <<

 DRM
 OFF
 Sunspec
 OFF <<</th>

 Sunspec
 OFF <<</td>
 ZVRT
 <</td>

OK Cancel <<

Pic 1.02

Name	Description	Range
ActiveP	Adjust the output active power in %	0-110%
Q-Mode	Multiple reactive power control modes	OFF/Q(P)/PF(P) /Q(U)/PF/Q(%)
Vref	Grid reference voltage for functions including Q(U),PF(P),P(U)etc.	80-260V
ReactP	Adjust reactive power output in %	-100%-+100%
PF	Power Fator	-1-0.8~+0.8-1
Fun_ISO	Insulation resistance detection	ON/OFF
Fun_RCD	Residual current detection	ON/OFF
Self-check	Inverter's self-check time.The default value 60s	0-1000s
Island	Anti-islanding protection	ON/OFF
Meter	If you want to use zero output mode,please set Meter to ON and select OFF to view data only	ON/OFF
Feed_IN %	It is used to deploy how much power can be feed in to grid when the inverter works under zero export mode.(For example,Feed_in=50% of the 12KW model and load power is 5KW. which means Max 6KW power can be feed into grid after inverter providing 5Kw to the load firstly.	0-100%

Pic 1.03

Name	Description	Range
ARC	Arc-fault detection function	ON/OFF/CLR
OF-Derate	Active power response to over- frequency	ON/OFF/HYS
UF-Uprate	Active power response to under- frequency	ON/OFF
PU	power response to grid voltage deviation	ON/OFF
LVRT	voltage ride through function	ON/OFF
HVRT	voltage ride through function	ON/OFF
PowerLim	Hard/soft export limit control	ON/OFF
DRM	Demand Response Modes	ON/OFF
Sunspec	Sunspec Function	ON/OFF
WGraStr	Percentage of Nominal Power per second	0.1%~10%
WGra	percentage of Nominal Power per second	0.1%~10%
ZVRT	Zero Current Mode	ON/OFF

Pic 1.04

ISO SEN MIN <<	ISO SEN HIG<<
Back	Back
ISO SEN MID<<	
Back	

Pic 1.05 FUN_ISO

RCD SEN MIN <<	ARC SEN HIG <<
Back	Back
ARC SEN MID <<	
Back	
Pic 1.06	FUN_RCD
Island SEN MIN ‹‹	Island SEN HIG <<
Back	Back
Island SEN MID ‹‹	
Back	
Pic 1.07	7 Island
ARC SEN HIG <<	ARC SEN MID <<
Back	Back
ARC SEN MIN <<	
Back	

Pic 1.08 ARC

Over-frequency Response

This series inverter provides "over-frequency response" function. Long pressing the "OFD Mode" to enter the "over-frequency response" setting menu.



Tab. 1-1 Definition of Over-frequency Response Parameters

Parameter	Range	Description
Fstr	45HZ-65HZ	The Start frequency value for overfrequency response.
Fstop	45HZ-65HZ	The Stop frequency value for overfrequency response.
RecGra	[3,500] 0.01%Pmax/s	Rate of Power recovery(Percentage of active power)

For example, StrtPT: 50.5Hz, StopPT: 51.5Hz, RecPT: 50.1Hz, when the grid frequency increases beyond Start: 50.5Hz, the inverter will linearly reduce the power output with a gradient of 100% Pmax/Hz until it reaches StopPT: 51.5Hz.





Fig. 1-1 Frq-Watt Mode for Over-frequency Conditions

HardLimit: Enable	ation OFF <<	HardLimitation Point 0.0% <<		
SoftLimitation Enable OFF <<		SoftLimitation Point 0,0% <<		
PTD_H M_OFF	0,0S 0,0×< <	OK << Cancel		
Pic 1.09 PowerLim				
Vstart Vsop	0,0× >> ×0,0	OK Cancel <<		

Pic 1.10 LVRT

When the frequency exceeds Fstop: 51.5Hz, the inverter output should stop (ie 0 W). When the frequency is lower than Fstop: 51.5 Hz, the inverter will linearly increase the power output with a gradient of 100% Pmax/Hz until it reaches Fstr: 50.5 Hz.

In the hysteresis mode, when the frequency is lower than Fstop: 51.5 Hz, the inverter will not increase the power output until it is lower than RecPT: 50.1 Hz.



The inverter provides a reactive power regulation function.

Tap **Reactive Power Regulation Mode** to select proper regulation mode and set the corresponding parameters.



ActiveP	0%	ActiveP 0%
Q-Mode	OFF <<	Q-Mode QU+QP <<
ActiveP	0%	ActiveP 0%
Q-Mode	Q(P) <<	Q-Mode PF(P) <<
ActiveP	0%	ActiveP 0%
Q-Mode	W(D) <<	w-mode Pr <<
ActiveP	0%	u-mode Pr <<

Pic 1.12

	The reactive power regulation function is disabled. The PF is fixed at +1.000
,	Q(%)
4	Adjust reactive power output in %.
	"PF" Mode
•	The power factor (PF) is fixed and the reactive power is regulated by the parameter PF. The PF ranges from 0.8 leading to 0.8 lagging.
	Leading: the inverter is absorbing reactive power from the Grid.
	• Lagging: the inverter is injecting reactive power into the grid.
,	• "Q(U)" Mode
	The reactive power output of the inverter varies in response to the grid voltage.
	• "Q(P)" Mode
	The reactive power output by the inverter is controlled by the active power of the inverter.
	• "PF(P)" Mode
	The DE is a set of the distance of the investor

"PU" Mode

The active power output of the inverter varies in response to the grid voltage.

WGraStr	×0,0	WGraStr	×0,0
PU	OFF <-	PU	ON <-
U1	>> ×0,0	U2	0.0% <<
P1	×0,0	P2	×0,0
V3	>> ×0,0	V4	0,0% <<
P3	×0,0	P4	×0,0
Ti	Ûs		
OK	Cancel <<		



Pic 1.13 Active Power Regulation Curve in PU Curve

Parameter	Range	Descrption	
P1	0%-110% Pn	Value of P/Pn at point (P1,U1) on the PU mode curve	
U1	0% -150% Vref	Grid voltage limit at point (P1,U1) on the PU mode curve	
P2	0%-110% Pn	Value of P/Pn at point (P2,U2) on the PU mode curve	
U2	0% -150% Vref	Grid voltage limit at point (P2,U2) on the PU mode curve	
P3	0%-110% Pn	Value of P/Pn at point (P3,U3) on the PU mode curve	
U3	0% -150% Vref	Grid voltage limit at point (P3,U3) on the PU mode curve	
P4	0%-110% Pn	Value of P/Pn at point (P4,U4) on the PU mode curve	
U4	0% -150% Vref	Grid voltage limit at point (P4,U4) on the PU mode curve	
Ti	0-1000s	The adjustment time of PU Curve in seconds (time to accomplish a change of 95%).	

"PU" Mode Parameters Explanation

"Q(U)" Mode

ActiveP	0%	Pstart	0,0× <<
QMode	QCUX <-	Pstop	20,0%
RmpTime	0s	UrefAuto	0s
RmpUref	0 <<	PtUsed	0 <<
U1	>> %0,0	U2	>> ×0,0
Q1	×0,0	Q2	×0,0
U3	>> ×0,0	V4	>> ×0,0
Q3	0,0%	V4	×0,0
U5	0,0% <<	UG 1	30.0% <<
Q5	×0,0	Q6	30,0%
Q6	0.0%		
OK	Cancel <<		

Pic 1.14



Parameter	Range	Description	
Pstart	0%-130% Rate out power	ver The QU mode starts when the active power is greater than this value	
Pstop	0%-130% Rate out power	The QU mode stops when the active power is less than this value	
Q1	-60% -60% Q/Pn	Value of Q/Pn at point (U1,Q1) on the Q(U) mode curve	
V1	0-110% VRated Grid voltage limit at point (U1,Q1) on t Q(U) mode curve		
Q2	-60% -60% Q/Pn	Value of Q/Pn at point (U2,Q2) on the Q(U) mode curve	
V2	0-110% VRated	Grid voltage limit at point (U2,Q2) on the Q(U) mode curve	
Q3	-60% -60% Q/Pn	Value of Q/Pn at point (U3,Q3) on the Q(U) mode curve	
V3	0-110% VRated	Grid voltage limit at point (U3,Q3) on the Q(U) mode curve	
Q4	-60% -60% Q/Pn	Value of Q/Pn at point (U4,Q4) on the Q(U) mode curve	
V4	0-110% VRated	Grid voltage limit at point (U4,Q4) on the Q(U) mode curve	
Q5	-60% -60% Q/Pn	Value of Q/Pn at point (U5,Q5) on the Q(U) mode curve	
V5	0-110% VRated	Grid voltage limit at point (U5,Q5) on the Q(U) mode curve	
Q6	-60% -60% Q/Pn	Value of Q/Pn at point (U6,Q6) on the Q(U) mode curve	
V6	0-110% VRated	Grid voltage limit at point (U6,Q6) on the Q(U) mode curve	
RMpTime	0-1000s	Increase or decrease the time required for the reactive power to reach the specified value of the curve.	

"Q(U)" Mode Parameters Explanation

"Q(P)" Mode

The reactive power output by the inverter is controlled by the active power of the inverter.



Pic 1.16 Reactive Power Regulation Curve in Q(P) Mode

ActiveP	20,0%	P1 0,0% <<
QMode	QP <-	Q1. 0,0%
P2	0.0% <<	P3 0,0% <<
02	0.0%	Q3 0,0×
P4	0.0% <<	P5 0,0% <<
Q4	×0,0	Q5 0,0×
P6	0.0% <<	OK << Cancel
QG	0.0%	

Parameter	Range	Description
P1	0%-100% Pn	Power value/Pn at point (P1,Q1) on the Q(P) mode curve
Q1	-60% -60% Q/Pn	Reactive power value at point (P1,Q1) on the Q(P) mode curve
P2	0%-100% Pn	Power value/Pn at point (P2,Q2) on the Q(P) mode curve
Q2	-60% -60% Q/Pn	Reactive power value at point (P2,Q2) on the Q(P) mode curve
Р3	0%-100% Pn	Power value/Pn at point (P3,Q3) on the Q(P) mode curve
Q3	-60% -60% Q/Pn	Reactive power value at point (P3,Q3) on the Q(P) mode curve
P4	0%-100% Pn	Power value/Pn at point (P4,Q4) on the Q(P) mode curve
Q4	-60% -60% Q/Pn	Reactive power value at point (P4,Q4) on the Q(P) mode curve
Р5	0%-100% Pn	Power value/Pn at point (P5,Q5) on the Q(P) mode curve
Q5	-60% -60% Q/Pn	Reactive power value at point (P5,Q5) on the Q(P) mode curve
P6	0%-100% Pn	Power value/Pn at point (P6,Q6) on the Q(P) mode curve
Q6	-60% -60% Q/Pn	Reactive power value at point (P6,Q6) on the Q(P) mode curve

"Q(P)" Mode Parameters Explanation

"PF(P)" Mode

The output power factor is controlled by the active power of the inverter.

Ustart	×0,0	P1	×0,0
Vstop	×0,0	PF1	-1,000 <<
P2	0.0%	P3	×0,0
PF2	-1,000 <<	PF3	-1,000 <<
P4	×0,0	P5	×0,0
PF4	-1,000 <<	PF5	-1,000 <<
P6	0,0×	RmpTime	0s
PF6	-1,000 <<	OK	Cancel <<





Parameter	Range	Description	
Vstart	0-150% Vref	The PFP mode is enable when grid voltage is greater than Vstart	
Vstop	0-150% Vref	The PFP mode is disable when grid voltage is less than Vstop	
P1	0-110% Pn	Power value at point (PF1,P1) on the PF(P) Curve	
PF1	0.8 leading - 0.8 lagging	PF value at point (PF1,P1) on the PF(P) Curve	
P2	0-110% Pn	Power value at point (PF2,P2) on the PF(P) Curve	
PF2	0.8 leading - 0.8 lagging	PF value at point (P2,PF2) on the PF(P) Curve	
P3	0-110% Pn	Power value at point (P3,PF3) on the PF(P) Curve	
PF3	0.8 leading - 0.8 lagging	PF value at point (P3,PF3) on the PF(P) Curve	
P4	0-110% Pn	Power value at point (P4,PF4) on the PF(P) Curve	
PF4	0.8 leading - 0.8 lagging	PF value at point (P4,PF4) on the PF(P) Curve	
P5	0-110% Pn	Power value at point (P5,PF5) on the PF(P) Curve	
PF5	0.8 leading - 0.8 lagging	PF value at point (P5,PF5) on the PF(P) Curve	
P6	0-110% Pn	Power value at point (P6,PF6) on the PF(P) Curve	
PF6	0.8 leading - 0.8 lagging	PF value at point (P6,PF6) on the PF(P) Curve	
RMpTime	0-1000s	The time of the PFF Curve in seconds (time to accomplish a change of 95%).	

"PF(P)" Mode Parameters Explanation