Technical Data

Rated Voltage 570VAC

RECon 75HV		780	1560	2340
DC Input				
Maximum input voltage (Voc)	V		1500	
Input voltage range	V		855 - 1300	
Nr of MPPT	-		1	
Maximum input DC current	A	900	1800	2700
Maximum input short circuit current	A	1200	2400	3600
AC Output				
Voltage Range (Phase-Phase)	V		570	
Frequency	Hz		50 / 60	
Power @ 25, 45, 50˚C	kW	770, 740, 688	1540, 1480, 1376	2310, 2220, 2064
Rated current (1)	A	750	1500	2250
General Information				
Type of connection	-		IT	
Power factor (2)	-		> 0,99	
Total harmonic distortion (2)	%		≤ 3	
Dimension and Weight				
Width, Height, Depth	mm	2750, 2252, 1052	3750, 2252, 1052	4750, 2252, 1052
Weight	kg	1500	2100	3000

Rated Voltage 600VAC

RECon 75HV		780	1560	2340
DC Input				
Maximum input voltage (Voc)	V		1500	
Input voltage range	V		900 - 1300	
Nr of MPPT	-		1	
Maximum input DC current	A	900	1800	2700
Maximum input short circuit current	A	1200	2400	3600
AC Output				
Voltage Range (Phase-Phase)	V		600	
Frequency	Hz		50 / 60	
Power @ 25, 45, 50˚C	kW	811, 780, 725	1622, 1560, 1450	2433, 2340, 2175
Rated current (1)	A	750	1500	2250
General Information				
Type of connection	-		IT	
Power factor (2)	-		> 0,99	
Total harmonic distortion (2)	%		≤ 3	
Dimension and Weight				
Width, Height, Depth	mm	2750, 2252, 1052	3750, 2252, 1052	4750, 2252, 1052
Weight	kg	1500	2100	3000

Rated Voltage 630VAC

RECon 75HV		780	1560	2340
DC Input				
Maximum input voltage (Voc)	V		1500	
Input voltage range	V		945 - 1300	
Nr of MPPT	-		1	
Maximum input DC current	A	900	1800	2700
Maximum input short circuit current	A	1200	2400	3600
AC Output				
Voltage Range (Phase-Phase)	V		630	
Frequency	Hz		50 / 60	
Power @ 25, 45, 50˚C	kW	851, 818, 761	1702, 1636, 1522	2533, 2454, 2283
Rated current (1)	A	750	1500	2250
General Information				
Type of connection	-		IT	
Power factor (2)	-		> 0,99	
Total harmonic distortion (2)	%		≤ 3	
Dimension and Weight				
Width, Height, Depth	mm	2750, 2252, 1052	3750, 2252, 1052	4750, 2252, 1052
Weight	kg	1500	2100	3000

Common Data

DC Input		
Type of connection	-	Ungrounded / Ground pole connection
Overvoltage protection	-	Surge arrester type II
Switch	-	DC load break switch
Other protection	-	Residual Current Detection Insulation monitoring system
Option	-	Zone Monitoring System

Auxiliary		
Auxiliary supply from UPS	V	230
Stand-by Consumption	W	250

General Information		
Installation	-	Outdoor
Protection class	-	IP 55
Storage temperature	°C	-25 ÷ + 70
Storage relative humidity	%	4 ÷ 100
Operating temperature range (3)	°C	-20 ÷ + 60
Cooling system	-	Forced air
Maximum altitude a.s.l (4)	m	4500

Interfaces		
Local user interface	-	Touch screen display
Communication protocol	-	Modbus RTU or TCP/IP
PC communication port	-	RS232 - RS485
Remote communication port	-	Ethernet

Standards		
Product standard	-	'2014/35/UE, 2014/30/UE, CEI EN 62109-1:2010, CEI EN 62109-2:2012, IEC 60730:2010
Grid requirements	-	OVFRT, LVFRT, Qf(V), Pf(f),
EMC	-	IEC EN 61000-6-2:2005, IEC EN 61000-6-4:2007 + A1:2011
Efficiency	-	IEC 61683:1999-11, EN 50530

Note: Specifications are subject to change without notice, please contact FRIEM
(1) at 45°C
(2) at rated power
(3) no de-rating up to 45°C ; 1,5% de-rating per degree in temperature
(4) de-rating over 2000m

Technical Data

RECon 30		200	400	600	800	1000	1200
DC Input							
Maximum input voltage (V_{OC})	V	1000					
Input voltage range	V	1,51 x V_{AC} - 885					
Nr of MPPT	-	1	2	3	4	5	6
Maximum input DC current	A	325 ÷ 1950					
Maximum input short circuit current	A	360 ÷ 2160					
AC Output							
Voltage Range (Phase-Phase)	V	200 - 400					
Frequency	Hz	50 / 60					
Power @ 200 (Phase-Phase) (1)	kW	100	200	300	400	500	600
Power @ 400 (Phase-Phase) (1)	kW	200	400	600	800	1000	1200
Rated current @40°C	A	290 ÷ 1740					
Auxillary Power							
Auxillary supply from UPS	V	230					
Standby consumption	W	110	220	330	440	550	660
General Information							
Width	mm	550	1100	1650	2200	2750	3300
Height	mm	2200					
Depth	mm	825					
Weight	kg	350	700	1050	1400	1750	2100
Air Flow	m^3/h	850	1700	2550	3400	4250	5100

RECon 2.30		409	818	1227
DC Input				
Maximum input voltage (V_{OC})	V	1000		
Input voltage range	V	1,51 x VAC - 885		
Nr of MPPT	-	1	2	3
Maximum input DC current	A	650 ÷ 1950		
Maximum input short circuit current	A	720 ÷ 2160		
AC Output				
Voltage Range (Phase-Phase)	V	200 ÷ 400		
Frequency	Hz	50 / 60		
Power @ 200 (Phase-Phase) (1)	kW	200	400	600
Power @ 400 (Phase-Phase) (1)	kW	400	800	1200
Rated current @40°C	A	580 ÷ 1740		
Auxillary Power				
Auxillary supply from UPS	V	230		
Standby consumption	W	110	220	330
General Information				
Width	mm	1100	2200	3300
Height	mm	2200		
Depth	mm	825		
Weight	kg	570	1400	1710
Air Flow	m^3/h	1700	3400	5100

Common Data

DC Input		
Type of connection	-	Ungrounded / Ground pole connection
Overvoltage protection	-	Surge arrester type II
Switch	-	DC load break switch
Other protection	-	Insulation monitoring system

AC Output		
Type of connection	-	IT
Power factor	-	> 0,99 at Rated Power and Rated Voltage
Total harmonic distortion (2)	%	≤ 3
Efficiency (Max, EU, CEC) (5)	%	99,23 - 98,78 - 99,01

General Information		
Installation	-	Indoor - conditioned
Protection class	-	IP 20
Storage temperature	°C	-25 ÷ + 70
Storage relative humidity	%	5 ÷ 85 without condensation
Operating temperature range (3)	°C	-10 ÷ + 40
Cooling system	-	Forced air
Maximum altitude a.s.l (4)	m	2500 (for installation over 1000 m, please contact FRIEM)

Interfaces		
Local user interface	-	Touch screen display
Communication protocol	-	Modbus RTU or TCP/IP
PC communication port	-	RS232 - RS485
Remote communication port	-	Ethernet

Standards		
Product standard	-	2004/108/EC - 2006/95/EC - CEI EN 62109-1 (2010) - CEI EN 62109-2 (2012) - IEC60730 (2010)
Grid requirements	-	CEI 0-16:2014-09 + V1:2014-12, SAGC (Version 2.6 November 2012), R.EXTRA CNE 501:2015, NTSyCS:2015, Ordinul Nr.30 din 17.05.2013, IEC 62116:2014 (ed. 2.0)
EMC	-	IEC EN 61000-6-2:2005, IEC EN 61000-6-4:2007 + A1:2011
Efficiency	-	IEC 61683:1999 (First Edition), EN 61683:2000

Note: Specifications are subject to change without notice, please contact FRIEM
(1) at 40°C
(2) at rated power
(3) no de-rating up to 40°C ; 1,5% de-rating per degree in temperature
(4) de-rating over 1000m
(5) without auxiliary power supply