



# SANHUA

## Residential Inverter Controller



Residential inverter controller is applicable for controlling room air conditioners including heat pump air conditioning systems, which is the core component of inverter air conditioners.

### FEATURES

#### • HIGH INTEGRATION DESIGN

IN ADDITION TO RESEARCHING AND DEVELOPING ELECTRIC CONTROL PRODUCTS, WE ALSO PROVIDE WHOLE SET OF ADVANCED COOLING CONTROL SOLUTIONS AND STRUCTURE DESIGN, INCLUDING CONTROL OF COMPRESSORS, ELECTRONIC EXPANSION VALVES, DEFROSTING, OUTSIDE TEMPERATURE, DISCHARGE TEMPERATURE, OVERHEAT PROTECTION AND ROTATING SPEED OF OUTDOOR BLOWERS APPLICABLE FOR SPLIT OR PACKAGED UNIT, EITHER COOLING OR BOTH COOLING AND HEATING WITH VARIOUS VOLTAGE

WE HAVE LABORATORIES FOR 10HP MULTIPLE INDOOR SYSTEM INCLUDING ENTHALPY DIFFERENCE LABORATORY, ENVIRONMENT & NOISE COMBINED LABORATORY, ENDURANCE LABORATORY, EMC LABORATORY, ELECTRIC ASSEMBLY LABORATORY, THERMAL SHOCK TESTER AND A LARGE BATCH OF HIGH PRECISION IMPORTED TESTING DEVICES TO ENSURE A GOOD DEVELOPING QUALITY

#### • HIGH QUALITY DESIGN

MASTERING CORE FREQUENCY CONVERSION TECHNOLOGIES TO REALIZE TORQUE COMPENSATION CONTROL AND FIELD WEAKENING, REDUCE COMPRESSOR VIBRATION, NOISE AND IMPROVE THE OPERATION FREQUENCY OF THE COMPRESSOR UTILIZING IMPORTED HIGH QUALITY ELEMENTS FOR IMPORTANT COMPONENTS (MITSUBISHI IPM, FAIRCHILD IPM, NEC CHIPS AND TOSHIBA CHIPS ETC.)

CONTROL TECHNIQUES WITH MULTIPLE SOLUTIONS TO MEET VARIOUS NEEDS OF THE CUSTOMERS

### TECHNICAL PARAMETERS

Project / Nominal Refrigerating Capacity	1HP	1.5HP	2HP	3HP
Voltage	220V±25%			
Frequency	50Hz/60Hz			
Frequency conversion range	Passive PFC 15-85Hz/Active PFC 15-120Hz			
Power factor	Passive PFC:0.85~0.90 Part PFC:0.95~0.98 Whole range PFC:0.97~0.997			
Construction	One-unit design/Split design			Split design
Allowed ambient temperature	-15°C ~ +55°C			-15°C ~ +55°C
Compressor actuating method	150° wide-angle actuating/Sine wave actuating			Sine wave actuating
Outdoor fan	DC motor/AC motor			
Throttle mode	Electronic expansion valve/capillary tubes			
Actuating compressor	GMCC, Panasonic, Hitachi, Sanyo, MITSUBISHI etc.			
Certification	3C\CE\ETL\TUV(including EMC)			

