

Environment Condition

Project name	Technical standard	Unit	Remark
Working Temperature	-20 — +60	°C	
Storage temperature/ humidity	-40 - +85°C, 10 - 95% RH No condensation	°C	
Working humidity	-20 - 90% RH No condensation	%	
Thermal methods	Natural cooling, temperature controlled fan cooling		
Atmospheric pressure	80—106	Kpa	
Altitude	≤2000	m	
v	10~500Hz,2G10min./1cycle, 60min.each along X,Y,Z axes		

Input Features(test at room temperature)

Project name	Technical requirement	Unit	Remark
Rated input voltage	230VAC 45Hz - 65Hz	Vac	
Input vlotage range	180-264VAC 45Hz - 65Hz	Vac	or DC 24 5-370Vdc
Power factor	PF≥0.65/230VAC(full load)	PF	
AC current	< 20A	A	
Leakage current	< 3.0mA / 240VAC	mA / Vac	
Pressure resistance	Input to output: 1.2KVAC, input to housing: 1.2KVAC, output to housing: 0.5KVAC per minute I/P-O/P:1.2KVAC I/P-FG:1.2KVAC O/P-FG:0.5KVAC		

Note: test in normal temperature

Output Features I

Project name	HLK-QYL-2000W-12V	HLK-QYL-2000W-24V	HLK-QYL-2000W-36V	HLK-QYL-2000W-48V	HLK-QYL-2000W-72V	Unit
Output voltage	12V	24V	36V	48V	72V	V
Rated current	166.6A	83.3A	55.5A	41.6A	27.7A	A
Current range	0~166.6A	0~83.3A	0~55.5A	0~41.6A	0~27.7A	A
Optimal range of constant current	6-12V	12-24V	18-36V	24-48V	36-72V	V
voltage accuracy	±1.0%					%
line regulation	±1.0%					%
load regulation	±1.0%					%
efficiency	85%	86%	87%	89%	90%	%
Output ripple	200mV	200mV	260mV	350mV	500mV	(mVp-p)
Start&Rise Time	1500mS, 100mS/230VAC(full load)					mS / VAC
Output short circuit protection	Enter constant current					
over-temperature protection	Turn off the output, automatically restore or restart to restore after the temperature drops					

Output Features II

Project name	HLK-QYL-2000W-96V	HLK-QYL-2000W-110V	HLK-QYL-2000W-150V	HLK-QYL-2000W-220V	Unit
Output voltage	96V	110V	150V	220V	V
Rated current	20.8A	18.1A	13.3A	9A	A
Current range	0~20.8A	0~18.1A	0~13.3A	0~9A	A
Optimal range of constant current	48-96V	55-110V	75-150V	110-220V	V
voltage accuracy	±1.0%				%
line regulation	±1.0%				%
load regulation	±1.0%				%
efficiency	90%	90%	91%	91%	%
Output ripple	600mV	850mV	900mV	1000mV	(mVp-p)
Start&Rise Time	1500mS, 100mS/230VAC(full load)				mS / VAC
Output short circuit protection	Enter constant current				
over-temperature protection	Turn off the output, automatically restore or restart to restore after the temperature drops				

Project name		Unit
External potentiometer	External potentiometer control (voltage, current)	V
Analog voltage control	0-5V/0-10V control (voltage, current)	A
Auxiliary power supply	12V 0.5A	A
Remote control switch	Default startup, high-level shutdown (3V-12V)	V
Remark	<p>1. All parameters, unless otherwise specified, are measured at 230VAC voltage input, rated load, and 25 °C conditions.</p> <p>2. Ripple and noise voltage were measured on a 20MHz bandwidth oscilloscope with 0.1 μ and 47 μ capacitors added to the end of a 12 inch twisted pair cable, and measured at a 20MHz bandwidth.</p> <p>3. Accuracy: including setting error, linear adjustment rate, and load adjustment rate.</p> <p>4. When the input voltage is low, the output needs to be reduced. Please refer to the static characteristic curve diagram for details.</p> <p>5. The start-up time is measured when the refrigeration machine is started, and frequent power on and off may increase the start-up time.</p>	