4683

-OKIGT

Parallel Use Single Use

ualtek





## QDG-120 Series

## Features:

- Universal AC input/ Full range
- Support 1+1 or N+1 Redundant System (Recommended to use Redundancy Modules)
- Built-in Active PFC, PF>0.95
- High Efficiency up to 92%
- Built-in Current Sharing Function
- Built-in Current Limiting Circuit
- Output Protections: OLP/OVP/SCP/OTP
- Wide operating ambient temperature (-25°C~70°C)
- 150% (180W) Peak Load Capacity
- Easy Fuse Tripping from High Overload Current
- Excellent Partial Load Efficiency
- Built-in DC OK Relay Contact
- Can be installed on TS-35/7.5 or TS-35/15
- 100% Full Load Burn-in Test
- Suitable for critical applications
- Ultra-slim 32mm width
- 3 Year Warranty



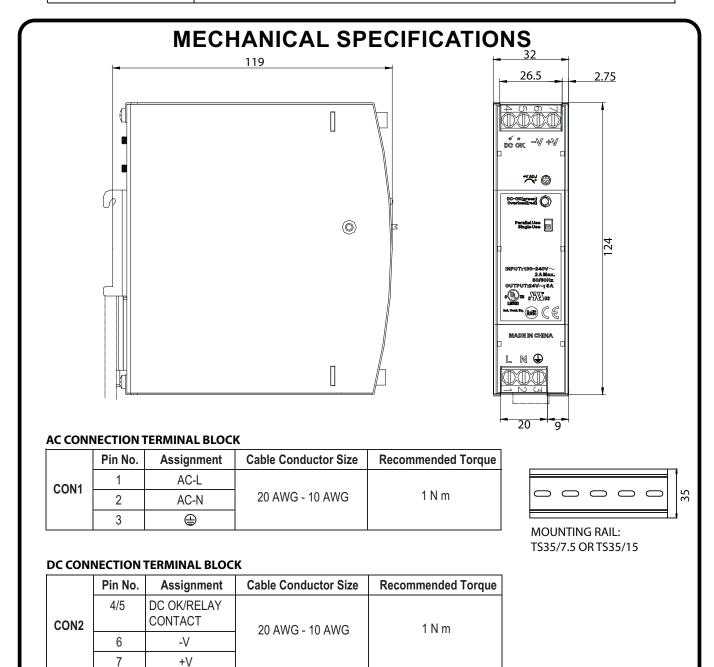
Model		QDG-120-12	QDG-120-24	QDG-120-48				
Output Characteristics								
DC Output		12V	24V	48V				
Rated Current		10A	5A	2.5A				
Current Range (Note 1)		0~10A	0~5A	0~2.5A				
Ripple and	0~70°C	≤100mV	≤120mV	≤240mV				
Noise (Note 2)	-25~0°C	≤200mV	≤240mV	≤240mV				
Voltage ADJ. Range		12V~14V	24V~28V	48V~56V				
Voltage Accuracy		±1.0%						
Line Regulation		±0.5%						
Load Regulation		±1.0%						
Set-up Time		≤250ms (230VAC input) ≤500ms (100VAC input)						
Hold-up Time		≥20ms (230VAC input, full load)						
Temperature Coefficient		±0.03%/°C						
Overshoot and Undershoot		<5.0%						
Input Charact	teristics							
Voltage Range		85VAC~264VAC						
Frequency Range		47Hz-63Hz						
Power Factor (Typical)		0.99/100VAC 0.95/230VAC						
Efficiency (Typical)		89.5%	91%	92%				
AC Current (max)		≤1.5A/100VAC ≤0.65A/230VAC						
Inrush Current (Typical)		<30A@100VAC Cold start <60A@230VAC Cold start						
Leakage Current		Input-Output: <0.25mA Input-PG: <3.5mA						
Protection								
Over Load (OLP)		110%~150% of rated curre	ent, CC limiting (150%@3S	), shutdown for 7S, @7S Load $\leq$ Rated Current auto recovery				
Over Power (OVP)		15~18V	29~33V	58~65V				
		Protection Type: Hiccup Mode, Auto recovery						
Over Temperature (OTP)		$100 \pm 5^{\circ}$ C detect on heatsink of Power Transistor, shutdown O/P, auto recovery when temperature reduces						
Short Circuit (SCP)		Long-term mode, auto recovery						
Environment	al Chara	cteristics						
Operating Amb. Temp. & Hum		-25°C~70°C; 20%~90% RH Non-Condensing						
Storage Temp. & Hum		-40°C~85°C: 5%-95% RH Non-Condensing						
Safety Standards		UL60950; EN60950; UL508						
Withstand Voltage		Primary-Secondary: 3.0KVAC;≤10mA, Primary-PG: 2.5KVAC;≤10mA, Secondary-PG: 0.5KVAC;≤10mA,						
Isolation Resistance		≥100M ohms						
EMC Emission		Compliance to EN55022, EN55024, FCC Part 15 Class B						
Harmonic Current		Compliance to EN61000-3-2, Class A						
EMC Immunity		Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN55024 light industry level						

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**120Watts Single Output** 



Model	QDG-120-12	QDG-120-24	QDG-120-48			
General Characteristics						
MTBF (MIL-HDBK-217F)	More than 300,000Hrs (25°C, Full load)					
Dimension (LxWxH)	124x119x32mm					
Packing	28PCS/CTN					
Cooling Method	Cooling by free air o	Cooling by free air convection				
Additional Function	IS					
Power Boost	150% of Rated Current					
Parallel Function	Supported					
DC OK	V On: When Output voltage is up to 90% of rated output voltage					
	V Off: When output voltage is down to 80% of rated output voltage					
DC OK Relay Contact Rating Max 30V/1A or 60V/0.3A, or 30VAC/0.3A Resistive Load						
Note	<ol> <li>All parameters NOT specially mentioned are measured at rated input, rated load, and 25°C of ambient temperature</li> <li>Measured at 20MHz of bandwith by using a 12° Twisted pair wire terminated with a 0.1uF &amp; 47uF parallel capacitor</li> <li>The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives.</li> </ol>					

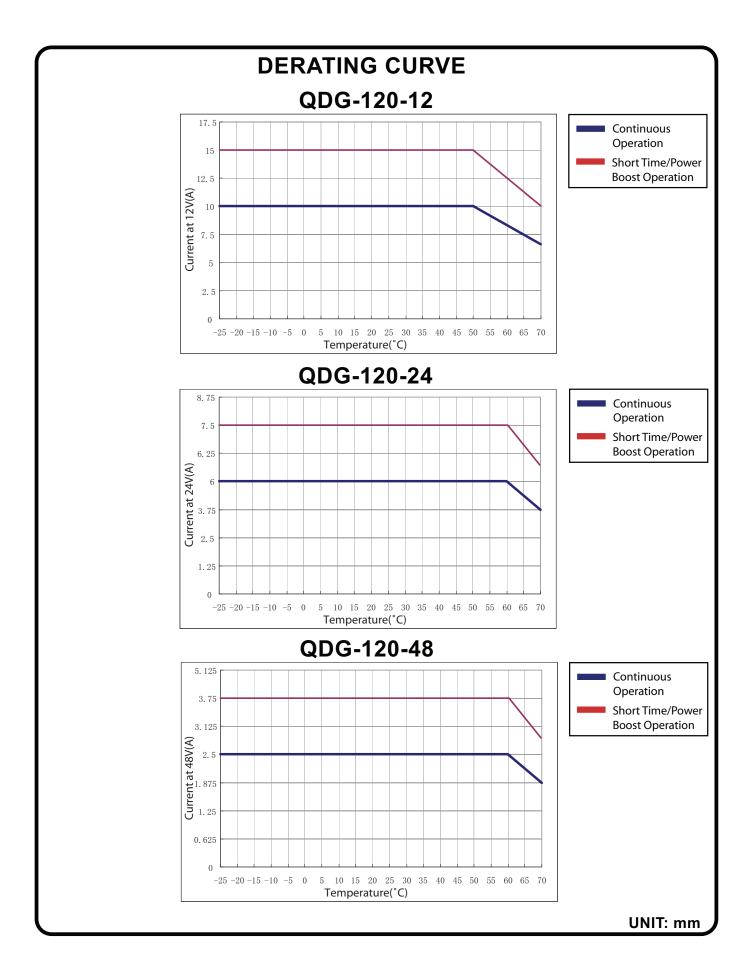


UNIT: mm

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## **Mouser Electronics**

Authorized Distributor

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