# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Primary-switched DIN rail power supply unit. AC input: suitable for operation between two phases (400 V AC). DC input: suitable for operation in an FI intermediate circuit. Output: 24 V DC/20 A.

### Product description

QUINT POWER power supply units – Superior system availability with SFB technology

Compact power supply units of the new QUINT POWER generation maximize the availability of your system. With the SFB technology (Selective Fuse Breaking Technology), six times the nominal current for 12 ms, even the standard power circuit-breakers can now also be triggered reliably and quickly. Faulty current paths are switched off selectively, the fault is located and important system parts continue to operate. Comprehensive diagnostics are provided through constant monitoring of output voltage and current. This preventive function monitoring visualizes critical operating modes and reports them to the control unit before an error can occur.



### Key commercial data

Packing unit	1 pc
Custom tariff number	85044030
Country of origin	China

### Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

#### Dimensions

Width	120 mm
Height	130 mm
Depth	125 mm

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C 70 °C (> 60 °C Derating: 2,5 %/K)
Ambient temperature (storage/transport)	-40 °C 85 °C



# Technical data

#### Ambient conditions

Max. permissible relative humidity (operation)	$\leq$ 95 % (at 25 °C, non-condensing)
Maximum altitude	≤ 2000 m
Input data	
Nominal input voltage range	2x 400 V AC 500 V AC
	600 V DC
Input voltage range	2x 360 V AC 575 V AC

Input voltage range	2x 360 V AC 575 V AC
	450 V DC 840 V DC
AC frequency range	45 Hz 65 Hz
Inrush surge current	< 85 A (typical)
Power failure bypass	> 20 ms (400 V AC)
Input fuse	3.15 A (slow-blow, internal)
Choice of suitable fuses	10 A 16 A (Characteristic B, C)
Type of protection	Transient surge protection
Protective circuit/component	Varistor

### Output data

Nominal output voltage	24 V DC ±1 %
Setting range of the output voltage	18 V DC 29.5 V DC (U <sub>IN</sub> $\geq$ 360 V AC / 480 V DC)
	18 V DC 26 V DC (< 480 V DC)
Nominal output current	20 A (-25 °C 60 °C)
POWER BOOST	26 A (-25°C 40°C permanent, U <sub>OUT</sub> = 24 V DC )
SFB technology current reserve	120 A (20 ms)
Derating	60 °C 70 °C (2.5%/K)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	Yes
Max. capacitive load	Unlimited
Active current limitation	Approx. 27 A
Control deviation	< 1 % (change in load, static 10 % 90 %)
	< 2 % (change in load, dynamic 10 % 90 %)
	< 0.1 % (change in input voltage ±10 %)
Residual ripple	< 50 mV <sub>PP</sub> (with nominal values)
Output current	20 A (-25 °C 60 °C)
Output power	480 W
Peak switching voltages nominal load	< 50 mV <sub>PP</sub> (20 MHz)
Maximum power dissipation NO-Load	11 W
Power loss nominal load max.	51 W

General



# Technical data

#### General

Net weight	2 kg
Efficiency	> 92 % (600 V DC)
	> 90.5 % (400 V AC)
Insulation voltage input/output	1.5 kV AC (type test)
	2 kV AC (routine test)
Protection class	1
	> 860000 h (40°C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Alignable: 5 mm horizontally, 15 mm next to active components, 50 mm vertically
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Standard - Safety of transformers	EN 61558-2-17
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
	EN 61558-2-17
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard - Safe isolation	DIN VDE 0100-410
Rail applications	EN 50121-4
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950-1

### Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	6 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	4 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	10
Stripping length	8 mm
Screw thread	M3

### Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	6 mm²
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	4 mm <sup>2</sup>
Conductor cross section AWG min.	12

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# Technical data

### Connection data, output

Conductor cross section AWG max.	10
Stripping length	8 mm
Screw thread	M3

## Signaling

Output name	DC OK floating
Output description	U <sub>OUT</sub> >0.9 x U <sub>N</sub> : Relays closed
Maximum inrush current	≤ 100 mA (short-circuit resistant)
Status display	"DC OK" LED green
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	6 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	4 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	10
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm
Screw thread	M3
Output name	POWER BOOST, active
Output description	l <sub>o∪T</sub> < I <sub>N</sub> : High signal
Maximum inrush current	< 20 mA (short-circuit resistant)
Status display	"BOOST" LED yellow/I <sub>OUT</sub> > I <sub>N</sub> : LED on
Output name	DC <sub>IN</sub> OK, active
Output description	U <sub>IN</sub> >450 V DC: high signal
Maximum inrush current	< 20 mA (short-circuit resistant)
Status display	LED "DC <sub>IN</sub> OK" green / U <sub>IN</sub> > 450 V DC: LED on

# Classifications

### eCl@ss

eCl@ss 4.0	27040702
eCl@ss 4.1	27040702
eCl@ss 5.0	27049002
eCl@ss 5.1	27049002
eCl@ss 6.0	27049002
eCl@ss 7.0	27049002
eCl@ss 8.0	27049002



# Classifications

### ETIM

ETIM 3.0	EC001039
ETIM 4.0	EC002540
ETIM 5.0	EC002540

#### UNSPSC

UNSPSC 6.01	30211502
UNSPSC 7.0901	39121004
UNSPSC 11	39121004
UNSPSC 12.01	39121004
UNSPSC 13.2	39121004

# Approvals

#### Approvals

#### Approvals

UL Recognized / UL Listed / cUL Recognized / cUL Listed / EAC / cULus Recognized / cULus Listed

Ex Approvals

Approvals submitted

Approval details

UL Recognized 🔊

UL Listed 🛞

cUL Recognized 🔊

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# Approvals

cUL Listed 🕲

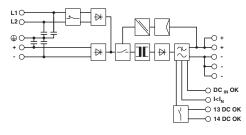
EAC

cULus Recognized

cULus Listed

Drawings

Block diagram



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