





POWERGOOD Product Model Number Structure

AC / DC Part Number Structure

ACQ100 - 120 S - 100

Output Quantity Series Name **Output Voltage (VDC) Output Power (W)** S : Single ACE30 050: 5 120: 12 ACE60 150: 15 **ACQ100** 240: 24 **ACH250 ACF700** 280: 28 360: 36 ACO100 ACO250 480: 48

DC / DC Part Number Structure

SQB - 018 120 - S - P - B 100

Series Input Output Output Remote Shape Output Name Voltage Voltage **Control** Power (W) Quantity (VDC) (VDC) **Option** 033: 3.3 **ESB** 012: 9-18 S: Single P: Positive F: Flat **ESC** 018: 9-36 050: 5 (Dosa logic (Baseplate **STB** 024: 18-36 120: 12 pin out) N: Negative without Flange) P:PV SQB 036: 18-75 150: 15 D: Dual logic (Heat sink embedded) **SQBF** 048: 36-75 240: 24 V: Vicor SHB 110: 40-160 280: 28 B: Baseplate pin out **SHBF** (40-180)480: 48 (with Flange) SFB (66-180)050: ± 5 120: ±12 MQB 300: 180-425 028: 9-75 150: ±15

DC / DC Encapsulated-S · Bricks-S Part Number Structure

SQBS - 024W 120 - S - P - B 100

240: ±24

: 180-425

300

054: 14-154

Series Name	Input Voltage (VDC)	Output Voltage (VDC)	Output Quantity	Remote Control Option	Shape	Output Power (W)
ESAS ESBS ESCS SQBS SHBS SFBS	024W: 9-36 036W: 18-75 048W: 18-75 024 : 18-36 048 : 36-75 110 : 40-160	050: 5 120: 12 150: 15 240: 24 280: 28 480: 48	S: Single (Dosa pin out) D: Dual V: Vicor pin out	P: Positive logic N: Negative logic	(Base without B: Base	eplate out Flange) plate Flange)

150: ±15

AC to DC











Series	ACE30	ACE60	ACQ100	ACH250	ACF700
Features	2'X1" compact size 50W/ 60W Peak load Capability Easy Hold-up time extension Low No Load Power Consumption<0.3W Low leakage current 100µA ±10% Output Trimming Function OCP OVP OTP SCP	2*X2* compact size 120W Peak load Capability Easy Hold-up time extension Low No Load Power Consumption<0.5W Low leakage current 100µA ±10% Output Trimming Function OCP OVP OTP SCP	Quarter Brick size No aluminum and tantalum electrolytic capacitor inside for High Reliability Easy Hold-up time extension Baseplate cooled Built-in Active PFC OCP OVP OTP SCP	Half Brick size No aluminum and tantalum electrolytic capacitor inside for High Reliability Easy Hold-up time extension Remote On / Off (Optional) Built-in Active PFC OCP OVP OTP SCP	Full Brick size No aluminum and tantalum electrolytic capacitor inside for High Reliability Easy Hold-up time extension Built-in Active PFC Parallel function OCP OVP OTP SCP
Output Power (W)	25W / 30 W	60W	100W / 15 0 W	250W / 350W	700W
Input Voltage (VAC)	90 ~ 264	90 ~ 264	90 ~ 264	90 ~ 264	90 ~ 264
Output Voltage (VDC)	5, 12, 15, 24, 36, 48	5, 12, 15, 24, 36, 48	5, 12, 15, 19, 24, 28, 36, 48	12, 15, 19, 24, 28, 36, 48	12, 15, 24, 28, 36, 48
Efficiency	Up to 88%	Up to 90%	Up to 91%	Up to 91%	Up to 90%
Isolation	Up to 4000VAC	Up to 4000VAC	Up to 3000VAC	Up to 3000VAC	Up to 3000VAC
Dimension	2.10"x 1.10"x 0.96"	2.10"x 2.10"x 1.10"	2.36"x 1.57"x 0.50"	2.36"x 2.30"x 0.50"	4.62" x 2.40" x 0.50"
Case Temperature	-40°C ∼+80°C	-40°C ∼+80°C	-40°C ∼+100°C	-40°C ∼+100°C	-40°C ∼+100°C
Package	Plastic case	Plastic case	Aluminum base with plastic case	Aluminum base with plastic case	Aluminum base with plastic case
EMI	EN55032 Class B	EN55032 Class B	EN55032 Class B (with external filter)	EN55032 Class B (with external filter)	EN55032 Class B (with external filter)
Safety	CE ROHS	C € RŎHS SCOMPLIANT	C € RŎHS SCHIPLIANT	CE RÓHS	CE ROHS
Warranty	2 Years	2 Years	3 Years	3 Years	3 Years

- Applications Wireless Network Telecom / Data Communication Industrial Control System Semiconductor Equipment Medical Application Defense

AC to DC





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Features

ACO100

- Quarter Brick module Built-in

- Quarter Brick module Built
 Built-in Radiator
 High Power Density Ratio
 Metal Baseplate & Cover
 Built-in Active PFC

OCP OVP OTP SCP

ACO250

- Half Brick module Built-in
- Built-in Radiator
 High Power Density Ratio
- Metal Baseplate & CoverBuilt-in Active PFC

OCP OVP OTP SCP

100W / 150W

250W / 350W

Up to 91%

 $90\,{\sim}\,264$

 $90\,{\sim}\,264$

12, 15, 24, 28, 36, 48

Up to 90%

Up to 3000VAC

Up to 3000VAC

5.00" x 1.64" x 1.00"

5.00" x 3.00" x 1.00"

12, 15, 24, 28, 36, 48

 $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

-40°C \sim +85°C

EN55032 Class B

Metal case

3 Years

Metal case EN55032 Class B

3 Years

CE ROHS

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• Wireless Network • Telecom / Data Communication • Industrial Control System

Semiconductor Equipment - Medical Application - Defense

Encapsulated-E Encapsulated-S



			411		_
Series	ESB	ESC	ESAS	ESBS	ESCS
Features	Built-in EMI filter Wide range operating temperature Single / Dual Outputs +70°C without derating UVLO OCP OVP OTP	Built-in EMI filter Wide range operating temperature Single / Dual Outputs +70°C without derating UVLO OCP OVP OTP	Highly automated production to ensure greatest reliability Built-in PI filter Wide range operating temperature SMD optional +70° C without derating UVLO OCP OVP OTP	Highly automated production to ensure greatest reliability Built-in PI filter Wide range operating temperature Single / Dual Outputs +70° C without derating UVLO OCP OVP OTP	Highly automated production to ensure greatest reliability Built-in PI filter Wide range operating temperature Single / Dual Outputs +60 °C without derating UVLO OCP OVP OTP
Output Power (W)	$15W\sim30W$	$20 \mathrm{W} \sim 50 \mathrm{W}$	$10W\sim15W$	$20\mathrm{W}\sim50\mathrm{W}$	50W ~ 100W
Input Voltage (VDC)	9~18, 9~36, 18~36, 18~75, 36~75	9~18, 9~36, 18~36, 18~75, 36~75, 40~160	9~36, 9~75, 18~75, 40~160	9~36, 9~75, 18~75	9~36,9~75,18~75,40~160
Output Voltage (VDC)	3.3, 5, 12, 15, 24, ±5, ±12, ±15, ±24	3.3, 5, 12, 15, 24, ±12, ±15, ±24	5, 12, 15, 24, 28, 48, ±12, ±15	5,12,15,24,28,48,±12,±15,±24	5,12,15,24,28,48,±12,±15,±24
Efficiency	Up to 91%	Up to 90%	Up to 88%	Up to 88%	Up to 89%
Isolation	Up to 2250VDC	Up to 2250VDC	Up to 1600VDC	Up to 2000VDC	Up to 2000VDC
Dimension	1.6"x 1.0"x 0.4" (Flat) 1.6"x 1.0"x 0.5" (Heat sink embedded)	2.00"x1.20"x0.40" (Flat) 2.00"x1.20"x0.50" (Heat sink embedded) 2.03"x1.68"x0.46" (Baseplate)	1.27"x 0.65"x 0.40" (DIP 24) 1.27"x 0.65"x 0.40" (SMD 24)	1.00"x 1.00"x 0.40"	2.00"x 1.00"x 0.40"
Case Temperature	- 45°C \sim +115°C -55°C \sim +125°C (Optional)	- 45° C \sim + 115° C - 55° C \sim + 125° C (Optional)	- 40°C ∼ +100°C	-40°C ∼+100°C	-40°C ∼+100°C
Package	Heat sink embedded & Flat	Heat sink embedded & Flat & Baseplate	DIP 24, SMD 24 (Metal or PVC)	Flat	Flat
EMI	EN55032 Class A & Class B	EN55032 Class A & Class B	EN55032 Class A	EN55032 Class A	EN55032 Class A
Safety	CE RÓHS COMPLIANT	CE RÓHS	CE ROHS (SALE)	CE RÖHS	CE RÓHS COMPLIANT
Warranty	3 Years	3 Years	3 Years	3 Years	3 Years

Applications

Safety

Warranty

Applications

- Railway Application Aviation Use Wireless Network Telecom / Data Communication
- Industrial Control System Semiconductor Equipment Defense

Bricks-B Series STB (1 / 16 Brick compliant) SQB (1/8 - 1/4 Brick compliant) SHB (1 / 2 Brick compliant) SFB (Full Brick) MQB (1 / 4 Brick compliant) DOSA pin out / Vicor pin out ■ DOSA pin out / Vicor pin out DOSA pin out Vicor pin out **Features** 8:1 & 12:1 Ultra-Wide input voltage Wide range operating temperature Single / Dual / Multi output ■ Ceramic Capacitor design ■ Ceramic Capacitor design · Ceramic Capacitor design ■ Ceramic Capacitor design ■ Provides predictable EMI Provides predictable EMI ■ Provides predictable EMI ■ Provides predictable EMI Provides predictable EMI No minimum load requirement • No minimum load requirement • No minimum load requirement • No minimum load requirement Optional parallel output UVLO OCP OVP OTP $40 \text{W} \sim 60 \text{W}$ Output Power (W) $50W \sim 75W$ 120W ~ 150W 200W \sim 300W 400W ~ 600W Input Voltage (VDC) 9~18, 9~36, 18~36, 18~75, 36~75 9~36, 18~36, 18~75, 40~180, 180~425 9~36, 18~36, 18~75, 40~180, 180~425 9~36, 18~36, 18~75, 40~180, 180~425 9~75, 14~154 **Output Voltage (VDC)** 3.3, 5, 12, 15, 24 5, 12, 15, 24, 28, 48 5, 12, 15, 24, 28, 48 12, 15, 24, 28, 48 5, 12, 15, 24, ±12, ±15, ±24 Up to 91% Up to 92% Up to 92% Up to 91% Up to 90% Isolation Up to 2250VDC 1.48" x 1.08" x 0.52" (Flat) **Dimension** 2.42"x 1.08"x 0.50" (1/8 Flat) 2.42"x 2.40"x 0.59" 4.62"x 2.40"x 0.59" 2.36"x1.57"x0.49" 1.49" x 1.46" x 0.52" (Baseplate) 2.42"x 1.47"x 0.50" (1/4 Baseplate) 1.49" x 1.50" x 0.50" (Wide Baseplate) **Case Temperature** - 45° C \sim + 105° C -45°C ~+105°C -45°C ~+105°C $-45^{\circ}\text{C} \sim +105^{\circ}\text{C}$ -45°C ~ +105°C - 55° C \sim +125 $^{\circ}$ C (Optional) -55°C \sim +125°C (Optional) - 55° C \sim + 125° C (Optional) **Package** 6-side baseplate & Flat 6-side baseplate & Flat 6-side baseplate 6-side baseplate 6-side baseplate

CE ROHS

3 Years

CE ROHS

3 Years

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3 Years

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• Industrial Control System • Semiconductor Equipment • Defense

CE ROHS

Bricks-S Series SQBS (1/8 - 1/4 Brick compliant) SHBS (1 / 2 Brick compliant) SFBS (Full Brick) Highly automated production to Highly automated production to Highly automated production to DOSA pin out / Vicor pin out Wide space apparation. **Features** ensure greatest reliability Vicor pin out Wide range operating temperature Inginy automated production to ensure greatest reliability Vicor pinout Widerange operating temperature Ceramic Capacitor design Wide range operating temperature Ceramic Capacitor design Ceramic Capacitor design Provides predictable EMI No minimum load requirer Provides predictable EMI No minimum load requiremen Provides predictable EMI No minimum load requirement UVLO OCP OVP OTP UVLO OCP OVP OTP UVLO OCP OVP OTP **Output Power (W)** $50W \sim 150W$ $50W \sim 200W$ $50W \sim 200W$ Input Voltage (VDC) 9~36,9~75,18~36,18~75,40~160,180~425 9~36, 18~36, 18~75, 40~160, 180~425 9~36, 18~36, 18~75, 40~160, 180~425 **Output Voltage (VDC)** 12, 15, 24, 28, 48 12, 15, 24, 28, 48 12, 15, 24, 28, 48 Efficiency Up to 89% Up to 89% Up to 89% Isolation Up to 2250VDC Up to 2250VDC Up to 2250VDC 2.42"x1.08"x0.50" (1/8 Flat) 2.42"x1.47"x0.50" (1/4 Baseplate) 2.42"x2.20"x0.50" (1/4 Wide Baseplate) **Dimension** 2.42"x 2.40"x 0.59" 4.62"x 2.40"x 0.59" -40°C ~ +100°C -55°C ~ +125°C (Optional) -40°C ~ +100°C - 40°C ~ +100°C - 55°C ~ +125°C (Optional) **Case Temperature** -55°C ~ +125°C (Optional) **Package** 6-side baseplate & Flat 6-side baseplate 6-side baseplate CE ROHS V CE ROHS CE ROHS V Safety Warranty 3 Years 3 Years 3 Years

Applications

- Railway Application Aviation Use Wireless Network Telecom / Data Communication
- Industrial Control System Semiconductor Equipment Defense



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- Industrial Control System Semiconductor Equipment Defense



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