

Efficiently Powering the Future of Technology



Murata Power Solutions for the Entire System



Murata: Power Solutions For The Entire System



Murata: AC-DC & DC-DC Power Solutions

AC-DC converter Products: Front-end, hot swappable, open-frame, PCB mount. Industrial & Medical rated.

Isolated DC-DC converter Products: Single & Dual output. Power from 0.02 to 1kW. Currents from 0.02 to 50 Amps.

AC & DC Input

OCP Power

High Power FE (3,000W to 5,500W)

Hot Swap FE (450W to 3,600W)

Open Frame (200W to 1,000W)

Isolated DC-DC (12W to 1,000W)

Micro-Isolated PoL

Charge Pump & 2-stage buck

MicroBuck & Picobuck

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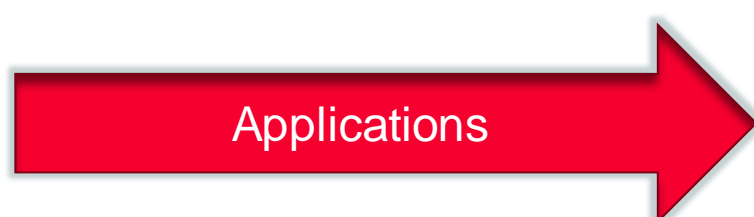
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Murata Power Solutions by Application

Healthcare & Medical, Robotics, Digital Home Network, EV Charge, Transceiver & Modems, AI Server, Industry, Server, Storage, Networking, Autonomous Vehicles, Last/Edge-to-Edge Cores.

Focus Applications

Server, Storage, Networking, Autonomous Vehicles, Last/Edge-to-Edge Cores.

Hot Swappable N+1 Redundant Front-End Power Supplies

CRPS - D1U74T, D1U54 - 1500, Chassis/Server.



Murata Power Solutions - Brochures

TITANIUM FRONT-END PRODUCTS

AC-DC Power Supplies

Slim 54mm Series for Server, Storage, and Networking

Product Features:

- High Power efficiency 95% at 50% Load beyond 500 Watts
- High reliability capacitor, hot swap up to 100W in parallel with active current sharing
- Power Management (PMBus) / 0.1% load regulation, 0.1% line regulation and transient
- Low ripple output for 1.2V output, integral MOSFET bridge inductor
- Low AC Input voltages with active PFC
- Output Voltage 3.3Vdc
- Low temperature, low EMI and low noise operation

Model	Output Power	Input Voltage	Output Voltage	Output Current (Typical)
ES054T1R-003-01-000	300W @ 1.2V	100-240VAC	1.2V	250A @ 1.2V (300W)
ES054T1R-003-01-000	200W @ 1.2V	100-240VAC	1.2V	167A @ 1.2V (200W)

High power AC-DC converters

High power standard models to custom designs with medical approvals*

250W AC-DC, PQ250 series

Features:

- Wide operational frequency range (20kHz to 100kHz)
- Small size (height 25mm x 25mm x 25mm)
- High reliability (MTBF > 1,000,000 hours)
- Low ripple output (ripple < 10mV)
- Efficient (95% efficiency)
- Compliant to IEC60950-1 Class II safety standard
- Compliant to IEC60601-1 Class II safety standard
- Compliant to IEC60950-1 Class II safety standard
- Compliant to IEC60601-1 Class II safety standard
- Compliant to IEC60950-1 Class II safety standard
- Compliant to IEC60601-1 Class II safety standard



Murata: AC-DC & DC-DC Power Solutions

AC-DC converter Products

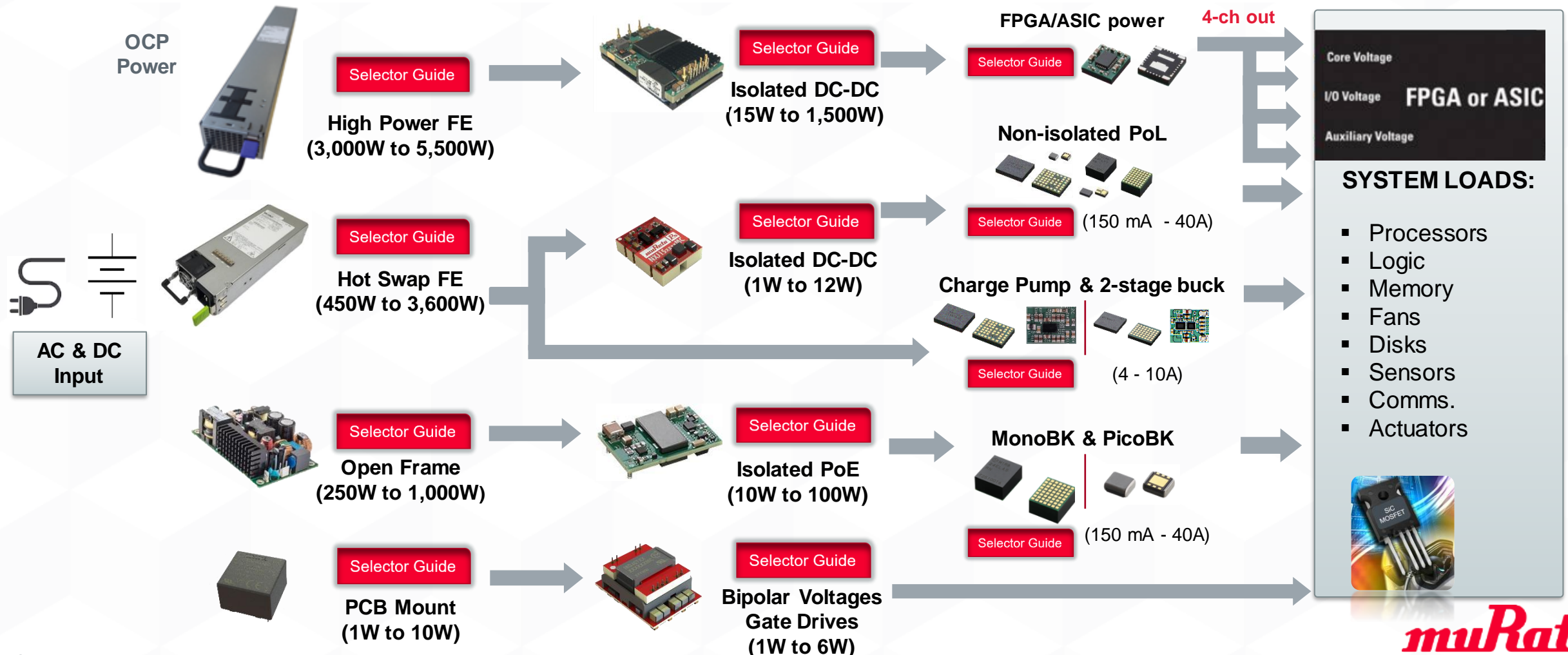
- Front-end, hot swappable, open-frame, PCB mount
- 1W up to 5,500W
- Industrial & Medical rated

Isolated DC-DC converter Products












- Single & Dual output
- Power from 0.25 to 1.5kW currents from 0.02 to 125 Amps

Non-isolated DC-DC POL Products

- DOSA compatible designs
- Discrete and module solutions
- Currents from 150mA to 40A



OCP Power Shelf & PSU Products

Category	Part Number	Status	Appearance	Height	Input Configuration	Output Power (W)	Outlets	Support BBU	How to Connect to Busbar	Support Input Redundancy	Applicable PSU	Appearance	Weight (kg)	Operating Temperature (°C)
Power Shelf	MWOCES-192-A	In Production		2U	3phase Delta	15kW (N+1)	6	✓	KIT	✓ (ATS)	MWOCP74-3000-A-RM	 12V output	16.6	0°C~40°C
	MWOCES-192-M	In Production		2U	3phase Wye/Delta Single phase	15kW (N+1)	6	✓	KIT	✗	MWOCP74-3000-A-RM		16.4	0°C~40°C
	MWOCES-211-F	In Production		10U	3phase Wye	15kW (N+1)	2	✗	Direct	✗	MWOCP74-3000-A-RM		11.6	0°C~40°C
	MWOCES-211-G	In Production		10U	3phase Wye	15kW (N+1)	2	✓	KIT	✗	MWOCP74-3000-A-RM		11.6	0°C~40°C
	MWDCEC-191-C	In Production		1U	3phase Wye/Delta Single phase	12kW (N+1)	2	✗	KIT	✗	MWOCP74-3000-A-RM	12.5	0°C~40°C	
	MWDCEC-191-D	Under Development		1U	HVDC	12kW (N+1)	0	✓	KIT	✗	MWOCP74-3000-A-RM	12.5	0°C~40°C	
	MWOCES-191-M-B	In Production		1U	3phase Wye/Delta, Single phase	18kW (N+1)	0	✓	KIT	✗	MWOCP68-3600-D-RM	 54V output	11.6	0°C~40°C
	MWOCES-211-P-C	In Production		10U	3phase Wye/Delta, Single phase	18kW (N+1)	0	✓	Direct	✗	MWOCP68-3600-B-RM	 50V output	12.1	0°C~40°C

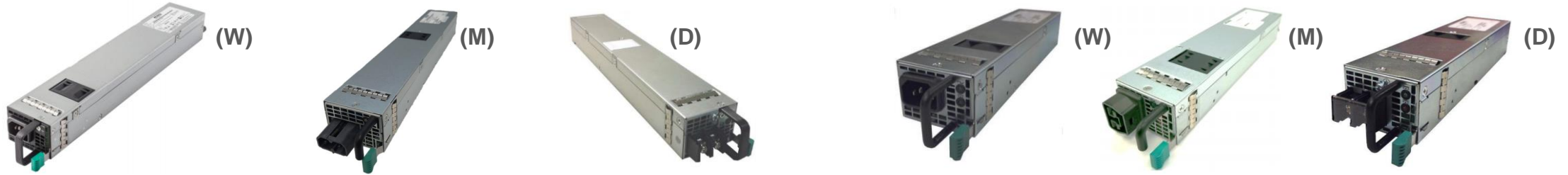
[Click to view the Data Center and Open Compute Power Solutions](#)



Data Center & Open Compute [click for Power Shelf → Power Shelf](#)
Power Shelf

Data Center & Open Compute [click for PSU → Power Supply Unit](#)
PSU

Server, Storage, & Networking - 1U Front Ends (12V)



D1U54 Series - Long - 1U x 54.5mm x 321.5mm (HxWxL)

- 2500W - click for data sheets → [AC\(305\)/HVDC-Input \(Titanium\)](#), [DC-Input](#)
- 2000W - click for data sheets → [AC-Input \(Titanium\)](#), [DC-Input](#)
- 1500W - click for data sheets → [AC\(305\)/HVDC-Input \(Titanium\)](#), [AC-Input \(Titanium\)](#), [AC-Input \(Platinum\)](#), [DC-Input](#)
- 1200W - click for data sheets → [DC-Input](#)

(W) AC-Input Range: 90-264VAC

(M) AC/HVDC-Input Range: 90-305VAC, 192-400Vdc

(D) DC-Input Range: -40 to -72Vdc

D1U74 Series - 1U x 73.5mm x 185mm (HxWxL)

- 2700W CRPS, click for data sheet → [AC-Input \(Titanium\)](#)
- 1600W CRPS, click for data sheet → [AC-Input \(Titanium\)](#)

AC-Input Range: 90-264VAC



D1U54 Series - Short - 1U x 54.5mm x 228.6mm (HxWxL)

- 1200W - click for data sheet → [AC-Input \(Titanium\)](#), [DC-Input](#)
- 800W - click for data sheet → [AC-Input \(Titanium\)](#), [DC-Input](#) ← (L=236.6mm)
- 650W - click for data sheets → [AC-Input \(Platinum\)](#), [DC-Input](#)
- 450W - click for data sheets → [AC-Input \(Platinum\)](#)

(W) AC-Input: 90-264VAC

(M) AC/HVDC-Input: 90-305VAC, 260-400Vdc

(D) DC-Input Range: -40 to -72Vdc (D)



D1U86 series - 1U x 86.4mm x 197.7mm (HxWxL)

- 1600W - click for data sheets → [AC Input \(Titanium\)](#)
- 800W - click for data sheet → [AC Input \(Titanium\)](#)

(W) AC-Input Range: 90-264VAC

(D) DC-Input Range: -40 to -72Vdc

Murata Power Solutions Front-End Titanium & Platinum Efficiency AC-DC Power

[click for Landing page →](#)

AC-DC Power Supplies // Industrial & Medical Applications

PQC250 series 250W open-frame (3x5) - [click here for data sheet](#) & [COVER](#)



Open-Frame



Enclosed w/ cover

- PQC250 Series AC-DC Power Supply
 - High density, 250W convection cooled @ 50C
 - Industry leading MTBF 4.5M hrs (fan less)
 - 3" x 5" industry standard footprint
 - IEC62368 Certified, Medical 2xMOPP certified

PQU650 series 450W-650W U-channel (4x6) - [PQU650](#) & [PQU650M](#) & [COVER](#)



U-channel



Enclosed w/ cover



Enclosed w/ fan



Medical BF Rated

- PQU650 Series AC-DC Power Supply
 - 650W (fan), 450W (convection) @ 50°C
 - 12V, 24V, 28V, 48V, 54V outputs
 - 4" x 6" x 40mm (42.7mm with cover)
 - Medical approved IEC60601-1, 2xMOPP certified

PQU1000 series 800W-1,000W U-channel (5x8) – [click here for data sheet](#) & [COVER](#)



U-channel



Enclosed w/ cover

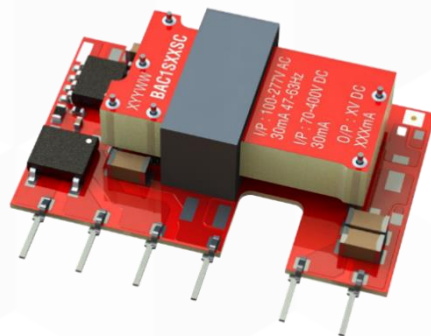


Enclosed w/ fan

- PQU1000 Series AC-DC Power Supply
 - 1,000W (fan), 800W (convection) @ 50°C
 - 12V, 24V, 48V, 54V outputs
 - 5" x 8"
 - Medical approved IEC60601-1, 2xMOPP certified

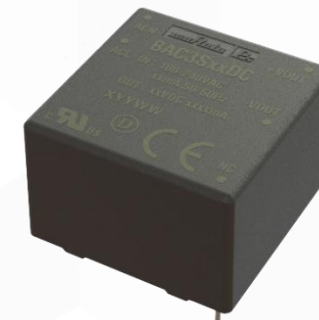
BAC Series, PCB Mount AC-DC Converters

- AC Input: 85 to 305 Vac
- 1W, 3W, 5W and 10W Models
- DC Outputs: 5 V, 12 V or 24 V
- Temp: -40 to 85 C
- Safety:
 - Industrial: UL/EN62368
 - Medical: EN60601(2MOOP/1MOPP) -pending
- Applications:
 - IoT (lighting, camera, etc.)
 - Building controls
 - HVAC controllers
 - Lighting
 - Security
 - Occupancy



BAC1, 21.37 x 33.53 x 10mm

BAC1 Series



BAC3, 25.4 x 25.4 x 16.3mm

BAC3 Series



BAC05, 25.4 x 25.4 x 16.3mm

BAC05 Series



BAC10, 27.4 x 38.6 x 16.57mm

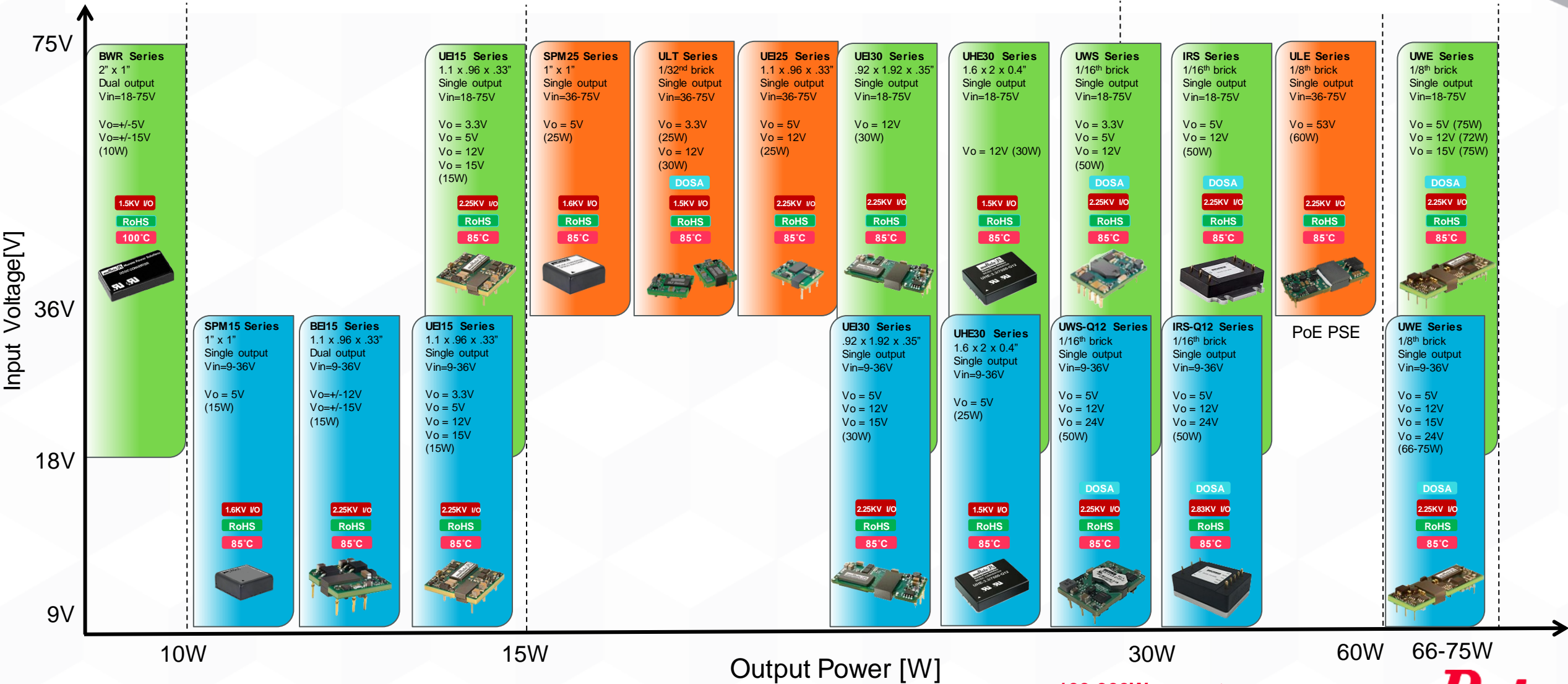
BAC10 Series

10W – 100W

click image for datasheet

[click for Landing page](#)

Regulated DC-DC Power Converters



PoE PSE

100-300W on next page

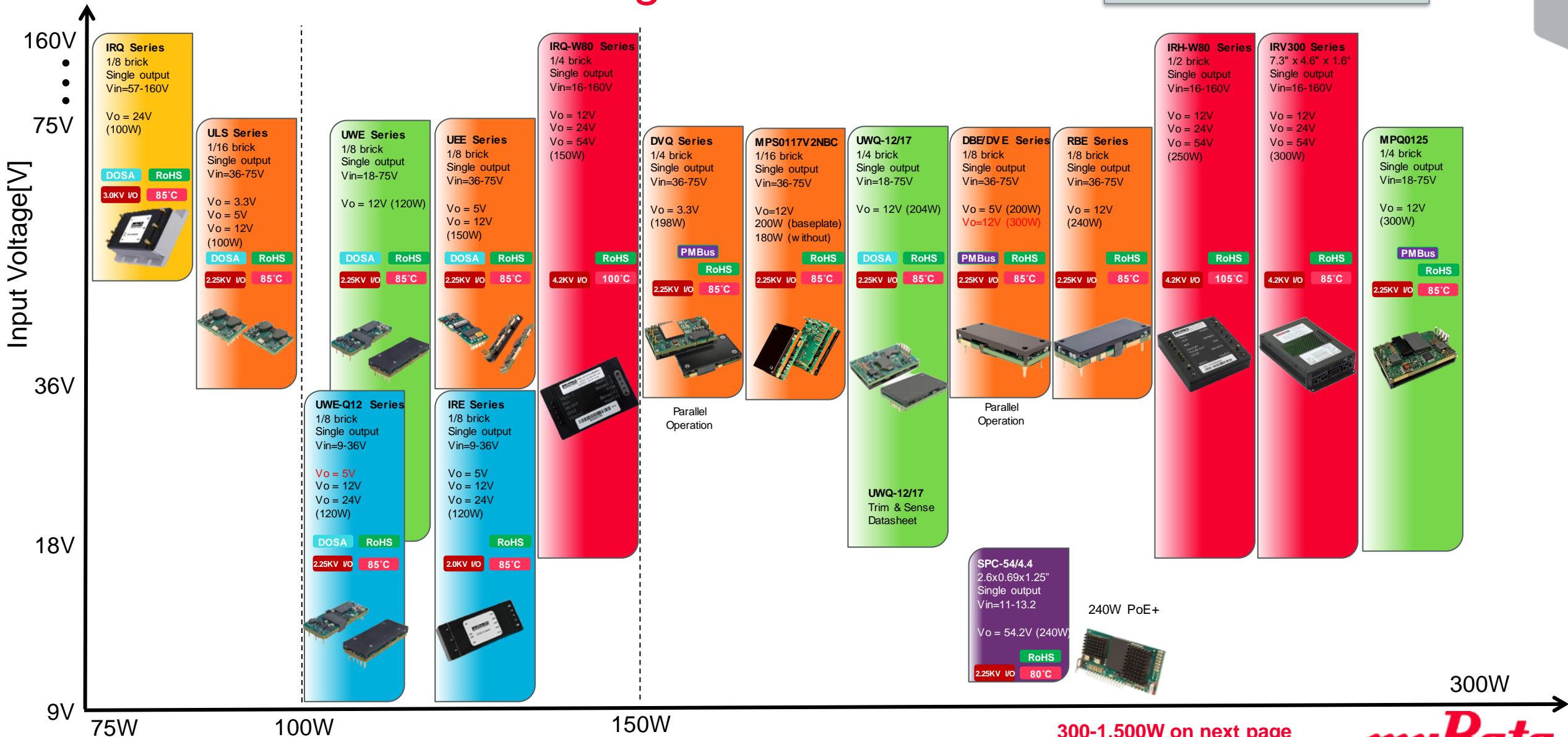


100W – 300W

click image for datasheet

[click for Landing page](#)

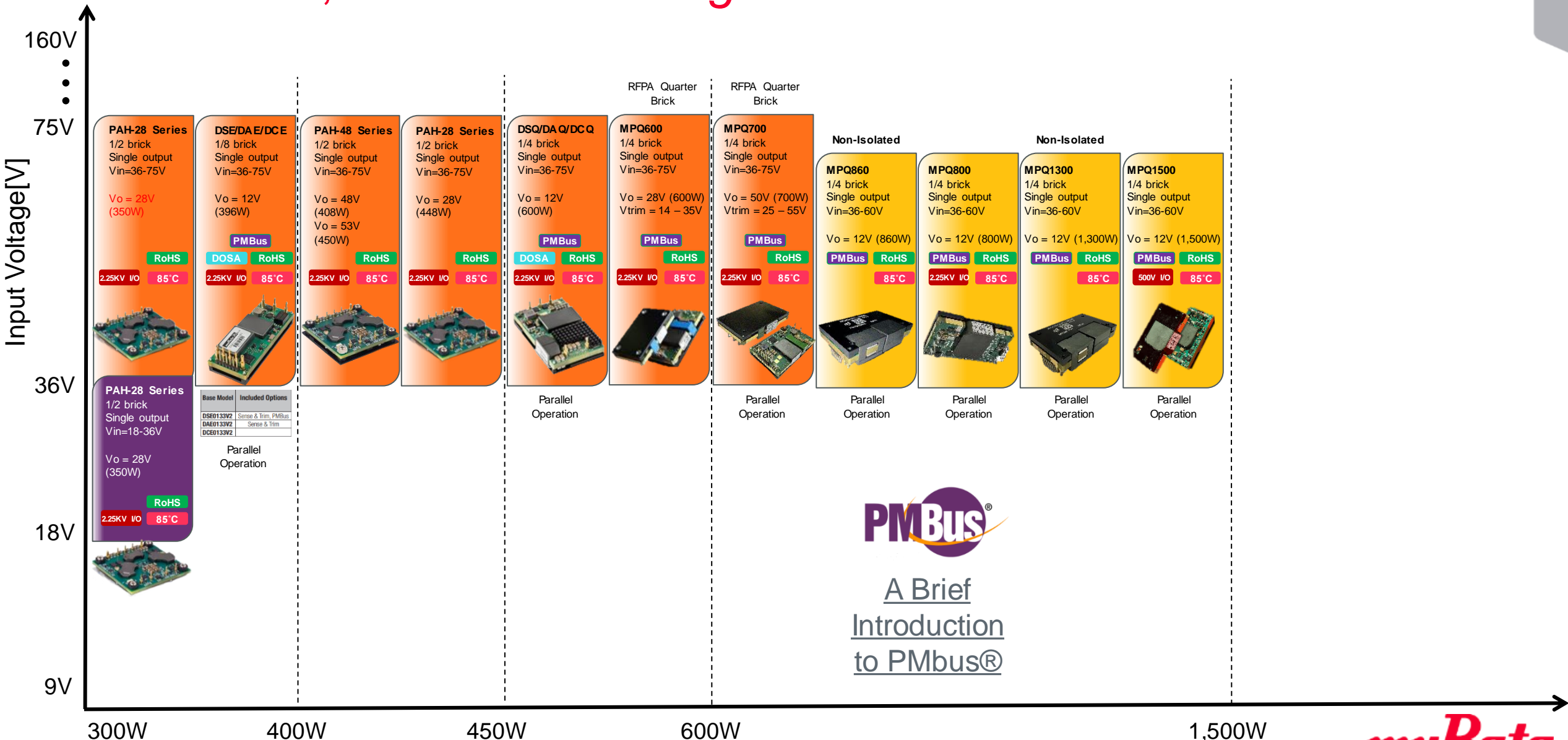
Regulated DC-DC Power Converters



300-1,500W on next page



300W – 1,500W *click image for datasheet*



PMBus®
 A Brief Introduction to PMbus®

SINGLE OUTPUT

click product images for data sheet

1kV Isolation

3kV Isolation

4.2kV(+) Isolation

NTE Series

Vin: 3.3V, 5V, 12V

Vout: 3.3V, 5V, 9V, 12V, 15V

SMD

MTE1 Series

Vin: 3.3V, 5V, 12V, 24V

Vout: 5V, 6V

SMD

NXE1 Series

Vin: 3.3V, 5V

Vout: 3.3V

SMD

NXU1 Series

Vin: 3.3V, 5V, 12V

Vout: 3.3V, 5V, 12V, 15V

SMD

MTU1 Series

Vin: 5V, 12V

Vout: 5V, 9V, 12V, 15V

SMD

CRR1 Series

Vin: 5V

Vout: 5V

SIP7

CME Series

Vin: 3.3V, 5V

Vout: 3.3V, 5V, 12V

0.75W

SIP4

NMI Series

Vin: 3.3V, 5V, 12V

Vout: 3.3V, 5V, 9V, 12V, 15V

5.2KV Isolation

SIP7

MEU1 Series

Vin: 3.3V, 5V, 12V

Vout: 3.3V, 5V, 12V

ZIP

CMR Series

Vin: 5V, 24V

Vout: 5V

0.75W

SIP7

NKE Series

Vin: 3.3V, 5V, 12V

Vout: 3.3V, 5V, 12V, 15V

SIP4

MEJ1 Series

Vin: 3.3V, 5V, 12V, 15V, 24V

Vout: 3.3V, 5V, 9V, 12V, 15V

5.2KV Isolation

SIP7

LME Series

Vin: 5V, 12V

Vout: 5V, 12V

0.25W

NMR Series

Vin: 5V, 12V, 24V

Vout: 5V, 12V, 15V

SIP7

CMR Series

Vin: 5V

Vout: 5V

0.75W

SIP7

CME Series

Vin: 5V

Vout: 5V, 12V

0.75W

SIP4

MER1 Series

Vin: 5V, 12V, 15V, 24V, 48V

Vout: 5V, 9V, 12V, 15V

SIP7

CRE1 Series

Vin: 3.3V, 5V

Vout: 5V

SIP4

1W

1W

SINGLE OUTPUT

click product images for data sheet

1kV Isolation

3kV Isolation

4.2kV(+) Isolation

CRE1 Series

Vin: 5V, 12V, 24V

Vout: 5V, 12V, 15V

SMD DIP8 SIP4

NME1 Series

Vin: 5V

Vout: 5V

SIP4

NMV Series

Vin: 5V, 12V

Vout: 5V, 9V, 12V, 15V

SIP7

MEE1 Series

Vin: 3.3V, 5V, 12V, 15V, 24V

Vout: 3.3V, 5V, 9V, 12V, 15V

SIP4

NMR1 Series

Vin: 5V

Vout: 5V

SIP7

MEV1 Series

Vin: 5V, 12V, 15V, 24V

Vout: 5V, 9V, 12V, 15V

SIP7

NME Series

Vin: 3.3V, 5V, 12V, 24V

Vout: 3.3V, 5V, 9V, 12V, 15V, 24V

SIP4

NMV1 Series

Vin: 5V

Vout: 5V

3kV Isolation

SIP7

MMV1 Series

Vin: 5V

Vout: 5V, 24V

SIP7

Pin Compatible

Pin Compatible

CRV1 Series

Vin: 5V, 12V

Vout: 5V, 15V

SIP7

Pin Compatible

Pin Compatible

Pin Compatible

Unregulated 2-3W on Next Page



SINGLE OUTPUT

click product images for data sheet

SINGLE OUTPUT

click product images for data sheet

1kV Isolation

3kV Isolation

5.2kV Isolation

1kV Isolation

3kV Isolation

5.2kV Isolation

MTU2 Series



Vin	3.3V
Vin	5V
Vin	24V
Vout	5V
Vout	24V

SMD

CRL2 Series



Vin	5V
Vin	12V
Vin	24V
Vout	5V

SIP4

NMK Series



Vin	5V
Vin	12V
Vin	15V
Vin	24V
Vout	5V
Vout	9V
Vout	12V
Vout	15V

SIP7

MEJ2 Series



Vin	3.3V
Vin	5V
Vin	12V
Vin	15V
Vout	3.3V
Vout	5V
Vout	9V
Vout	12V
Vout	15V

SIP7

NML Series



Vin	5V
Vin	12V
Vin	15V
Vout	5V
Vout	9V
Vout	12V
Vout	15V

SIP4

NMG Series



Vin	5V
Vin	12V
Vin	15V
Vin	24V
Vout	5V
Vout	9V
Vout	12V
Vout	15V
Vout	24V

SIP7

CRV2 Series



Vin	5V
Vin	12V
Vin	15V
Vin	24V
Vout	5V

SIP7

NXJ2 Series



Vin	5V
Vin	12V
Vin	24V
Vout	5V
Vout	12V
Vout	15V

SMD

NXE2 Series



Vin	5V
Vin	12V
Vout	5V
Vout	12V
Vout	15V

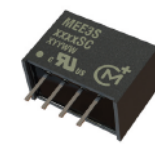
SMD

Pin Compatible

Pin Compatible

3W


MEE3 Series



Vin	5V
Vin	12V
Vout	5V
Vout	9V
Vout	12V
Vout	15V

SIP4

MEV3 Series



Vin	5V
Vin	12V
Vout	5V
Vout	9V
Vout	12V
Vout	15V

SIP7

Pin Compatible

Pin Compatible

Regulated on Next Page



SINGLE OUTPUT

click product images for data sheet

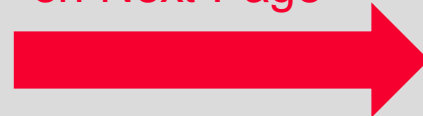
	1kV Isolation	3kV(+) Isolation		
1W	MEF1 Series Vin: 3.3V, 5V, 12V, 24V Vout: 3.3V, 5V SIP7	NMF Series Vin: 5V, 12V, 24V Vout: 5V SIP7, DIP14	MTC1 Series Vin: 5V, 12V, 24V Vout: 3.3V, 5V, 12V SMD	
	NCS1 Series Vin: 12V, 24V Vout: 3.3V, 5V, 12V SIP7		NXF1 Series Vin: 3.3V, 5V Vout: 3.3V, 5V SMD	
2W	NDL Series Vin: 5V, 12V, 24V Vout: 5V, 9V, 12V, 15V SIP8		MEF1 Series Vin: 3.3V, 5V, 12V, 24V Vout: 3.3V, 5V SIP7	
	MTC2 Series Vin: 12V, 24V Vout: 3.3V, 5V, 12V SMD			
3W	NDTS Series Vin: 5V, 12V, 24V Vout: 5V, 12V DIP24	NDY Series Vin: 5V, 12V, 24V, 48V Vout: 5V, 9V, 12V, 15V DIP24		
	NCS3 Series Vin: 12V, 48V Vout: 3.3V, 5V, 12V, 15V SIP8			
6W	NCS6 Series Vin: 12V, 48V Vout: 3.3V, 5V, 12V, 15V DIP24	NDS6 Series Vin: 12V, 24V Vout: 3.3V, 5V, 12V, 15V DIP24	NCM6 Series Vin: 5V, 12V Vout: 5V, 12V, 15V 5.2KV Isolation DIP24	

SINGLE OUTPUT

click product images for data sheet

	1kV Isolation	3kV(+) Isolation	
12W	NCS12 Series Vin: 12V, 48V Vout: 3.3V, 5V, 12V, 15V DIP24		
		Pin Compatible	Pin Compatible

Dual Output on Next Page



DUAL OUTPUT

click product images for data sheet

1kV Isolation

3kV(+) Isolation

MTU1 Series

Vin	5V	12V
Vout	±5V	±12V

SMD

MEA1 Series

Vin	5V	12V	15V	24V	48V
Vout	±5V	±9V	±12V	±12V	±15V

SIP7
DIP14

NKA Series

Vin	3.3V	5V	12V		
Vout	±3.3V	±5V	±9V	±12V	±15V

SIP6
DIP14

NTV Series

Vin	5V	12V		
Vout	±5V	±9V	±12V	±15V

SMD

NTA Series

Vin	5V	12V		
Vout	±5V	±9V	±12V	±15V

SMD

NMA Series

Vin	5V	12V		
Vout	±5V	±9V	±12V	±15V

SIP7
DIP14

NMV Series

Vin	5V	12V	15V
Vout	±5V	±12V	±15V

SIP7
DIP14

CRV1 Series

Vin	5V	12V
Vout	±12V	

SIP7

MEV1 Series

Vin	5V	12V	24V	48V
Vout	±5V	±9V	±12V	±15V

SIP7
DIP14

NMJ Series

Vin	5V	12V		
Vout	±5V	±9V	±12V	±15V

SIP7
5.2kV Isolation

CMR Series

Vin	5V	12V
Vout	±12V	±15V

SIP7
0.75W

MEJ1 Series

Vin	5V	12V	15V	24V	
Vout	±3.3V	±5V	±9V	±12V	±15V

SIP7
5.2kV Isolation

NMH Series

Vin	5V	12V	24V	
Vout	±5V	±9V	±12V	±15V

SIP7
DIP14

NMK Series

Vin	5V	12V	15V	24V
Vout	±5V	±9V	±12V	±15V

SIP7

MEJ2 Series

Vin	5V	12V	15V		
Vout	±3.3V	±5V	±9V	±12V	±15V

SIP7
5.2kV Isolation

Pin Compatible

Pin Compatible

Pin Compatible

1W

2W

DUAL OUTPUT

click product images for data sheet

1kV Isolation

5kV Isolation

3W

6W

NDTD Series

Vin	5V	12V	24V
Vout	±12V	±15V	

DIP24

NDS6 Series

Vin	24V		
Vout	±5V	±12V	±15V

DIP24

NCS6 Series

Vin	12V	48V	
Vout	±5V	±12V	±15V

DIP24

NCM6 Series

Vin	5V	12V	
Vout	±5V	±12V	±15V

DIP24

Pin Compatible

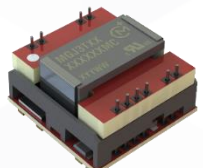
Gate Drive Power - SiC (Silicon Carbide) MOSFET / IGBT



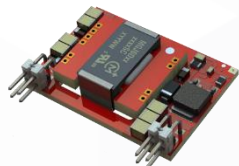
GaN



IGBT



SiC



MOSFET

1W

MGJ1 Series

MGN1 Series

MGJ1 SIP Series

2W

MGJ2/B Series

MGJ2 SM Series

3W

MGJ3 Series

6W

MGJ6/D Series

MGJ6 SIP/DIP Series

MGJ6 Low Profile Series

MGJ6 14mm Series

MGJ6 Half Bridge Series

MGJ6 3-PH Full Bridge



GaN

click for data sheets → [MGN1 Series](#)



MOS, IGBT, SiC

click for data sheets → [MGJ1 Series](#)



MOS, IGBT, SiC

click for data sheets → [MGJ1 SIP Series](#)



MOS, IGBT

click for data sheets → [MGJ2 Series](#), [MGJ2B Series](#)



MOS, IGBT, SiC

click for data sheets → [MGJ2 SM Series](#)



MOS, IGBT, SiC

click for data sheets → [MGJ3 Series](#)



MOS, IGBT, SiC

click for data sheets → [MGJ6 Series](#), [MGJ6D Series](#)



MOS, IGBT, SiC

click for data sheets → [MGJ6 SIP/DIP Series](#)



MOS, IGBT, SiC

click for data sheets → [MGJ6 Low Profile Series](#)



MOS, IGBT, SiC

click for data sheets → [MGJ6 14mm Series](#)



MOS, IGBT, SiC

click for data sheets → [MGJ6 Half Bridge Series](#)



MOS, IGBT, SiC

click for data sheets → [MGJ6 3-PH Bridge](#)
[MGJ6 Full Bridge](#)

Voltage Levels
on
Next Page

click product images for data sheet

GATE DRIVE

5.2kV(+) Isolation

Continuous Barrier Withstand Voltage 3kV

MGJ1 Series

Vin	Vout
5V	15/-3V
12V	15/-5V
15V	15/-9V
24V	15/-10V
	19/-5V



1W **SMD**

MGJ1 SIP Series

Vin	Vout
5V	6/-3V
12V	15/-3V
15V	15/-5V
24V	15/-9V
	18/-2.5V
	20/-5V



1W - Continuous barrier withstand voltage 2.4KV **SIP7**

MGJ2 Series

Vin	Vout
5V	15/-3V
12V	15/-5V
15V	15/-8.7V
24V	15/-15V
	17/-9V
	See datasheet



2W - Continuous barrier withstand voltage 2.4KV **SIP7**

MGJ2B Series

Vin	Vout
5V	15/-3V
12V	15/-5V
15V	15/-8.7V
24V	15/-15V
	17/-9V
	See datasheet



2W - Continuous barrier withstand voltage 2.4KV **SIP7**

MGJ6 SCDC Series

Vin	Vout
5V	15/-5V
12V	15/-10V
24V	20/-5V



6W **SIP DIP**

MGJ2 Surface Mount Series

Vin	Vout
5V	20/-5V
12V	
15V	



2W - Continuous barrier withstand voltage 2.5KV **SMD**

MGJ3 Series

Vin	Vout
5V	15/-5V
12V	15/-10V
24V	20/-5V



3W **SMD**

MGJ6 Series

Vin	Vout
5V	15/-5V
12V	15/-10V
24V	20/-5V



6W **SMD**

MGJ6 Half Bridge Series

Vin	Vout
5V	24V
12V	
24V	



6W **SMD**

MGJ6D Series

Vin	Vout
12V	15/-4V
	15/-2.5V



6W **SMD**

MGJ6 3 Phase Series

Vin	Vout
5V	24V
12V	
24V	



6W **SMD**

MGJ6 Full Bridge Series

Vin	Vout
5V	24V
12V	
24V	



6W **SMD**

MGJ6 14mm Series

Vin	Vout
5V	15/-5V
12V	15/-10V
24V	20/-5V



6W **SMD**

MGJ6 Low Profile Series

Vin	Vout
5V	15/-5V
12V	15/-10V
24V	20/-5V



6W **SMD**

MGN1


Vin	Vout
5V	8V
12V	12V
	+6/-3V



1W - Continuous barrier withstand voltage 1.1kV **SMD**

NXE1 Series

Vin	Vout
3.3V	3.3V
5V	5V



1W **SMD**

NXE2 Series

Vin	Vout
5V	5V
12V	12V



1W **SMD**

NXJ1 Series


Vin	Vout
3.3V	3.3V
5V	5V
12V	12V
	15V



1W - Continuous barrier withstand voltage 1KV **SMD**

NXJ2 Series

Vin	Vout
5V	5V
12V	12V
24V	15V



2W - Continuous barrier withstand voltage 1KV **SMD**

List of PoE Modules

[click for Landing page](#)

Isolated DC-DC converters for PoE

		PD Ctrl.	Size	Product Name	Output	Power	Features	MP Status
PD MODULES	PoE / at	O	 26 x 14.8 x 6.8	MYBSP00502ABF	5V/2A	10W	<ul style="list-style-type: none"> Compliant to IEEE 802.3af Class 0 operation Low profile SMD type Operating Temperature range -40 to +85 ° C Low EMI : compliant with CISPR class B 2250Vdc Input-Output Isolation 	MP
				MYBSP01201ABF	12V/1A	12W		MP
	PoE+ / at	O	 35.5 x 22.4 x 10.55	MYBSP0055AABF	5V/5.1A	25.5W	<ul style="list-style-type: none"> Compliant to IEEE 802.3at Class 4 operation Low profile SMD type Available continuous 25.5W at +85°C Low EMI : compliant with CISPR class B 2250Vdc Input-Output Isolation No External capacitor operation 	MP
				MYBSP0122BABF	12V/2.125A			MP
		O	 35.5 x 22.4 x 10.55	MYBSP0055AABFT	5V/5.1A			MP
				MYBSP0122BABFT	12V/2.125A			MP
	PoE++ / bt	N/A	 23.4 x 19.05 x 12.7	MYBTA00512ABT	5V/12A	60W	<ul style="list-style-type: none"> Compliant to IEEE 802.3at Class 8 operation Operating Temperature range -40 to +85 ° C Low EMI : compliant with CISPR class B 2250Vdc Input-Output Isolation 	MP
		O	 22.2 x 56.4 x 8.52	MYBSP0124CAZFT	12V/4.25A	51W	<ul style="list-style-type: none"> Support IEEE802.3bt/ PoE++ class6 2250Vdc Input-Output Isolation Available PSE Indicator and Adapter-Oring Operating Temperature range -40 to +85 ° C 	MP
O		 22.2 x 56.4 x 8.52	MYBSP01206AZFT	12V/6A	72W	<ul style="list-style-type: none"> Output Voltage Adjustable :+/-10% 2250Vdc Input-Output Isolation Available PSE Indicator and Adapter-Oring Operating Temperature range -40 to +85 ° C 	MP	
PSE MODULES	Boost-up	N/A	 35.5 x 22.4 x 10.55	MYBSS054R6EBF	54V/0.6A	30W	<ul style="list-style-type: none"> Low profile SMD type Available from -40 to +85°C Operations input from 10.8V to 27V 2250Vdc Input-Output Isolation 	MP
		N/A	 22.6 x 56.4 x 11.4mm	ULE-53/1.1-D48N-C2	53V/1.1A	60W	<ul style="list-style-type: none"> Industry-standard eighth-brick footprint Operations input from 36V to 75V Full Power @ 65C, natural convection 2250Vdc Input-Output Isolation 	MP

[click for datasheet](#) → [MYBSP – 10W/12W Series](#)

[click for datasheet](#) → [MYBSP – 25W Series](#)

[click for datasheet](#) → [MYBSP – 25W Series \(Oring\)](#)

[click for datasheet](#) → [MYBTA – 60W Series](#)

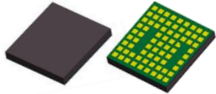

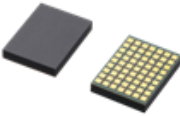
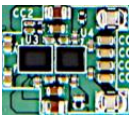
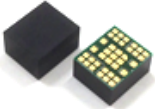

[click for datasheet](#) → [MYBSP – 51W Series \(Oring\)](#)

[click for datasheet](#) → [MYBSP – 72W Series \(Oring\)](#)

[click for datasheet](#) → [MYBSS – 30W Series](#)

[click for datasheet](#)
→ [ULE – 60W Series](#)

Low Power: Non-isolated Product Family

Family	Product Image	Description	Rating
UltraCP™		Used in 24V or 48V systems to improve system efficiency. Divides the high input voltage down to allow the POL to operate more efficiently. This is a virtually lossless DC transformer - only very small!	MYC0409 - 6A (72W)
FlexiCP™		Discrete charge pump IC with integrated FETs and controller for 2-cell, 3-cell, 12Vin and 48Vin application.	PE25203 - 4A (16W) PE25204 - 6A (72W) PE25200 - 10A (45W) PE25208 - 8A (240W)
UltraBK™		Family of very low profile (2.1mm) POL with the world's highest efficiency. Single and dual output versions. Includes I2C.	MYTN - 4A MYTN - 6A
FlexiBK™		Discrete buck regulator IC with capacitive based 2 stage architecture for 2-cell, 3-cell, 12Vin point-of load and 3.3Vin optical TRx application.	PE24101/102 - 6A PE24108 - 10A PE24110 - 12A
MonoBK™		Fully integrated buck regulator for 12Vin or 5Vin point-of load application.	2.5A, 3.5A, 4A, 6A, 8A, 10A, 12A, 16A, 20A, 24A, 30A, 40A
PicoBK™		Tiny POL for battery powered applications such as wearable devices, optical transceiver, and SSD. All under 2mm height.	0.15A, 0.8A(boost), 0.6A, 2.0A

Click Ratings for data sheets

UltraCP™ series low-profile module, charge pump

FlexiCP™ series discrete, charge pump IC

UltraBK™ series low-profile, 2-stage buck

FlexiBK™ series discrete, 2-stage buck

MonoBK™ series high power density

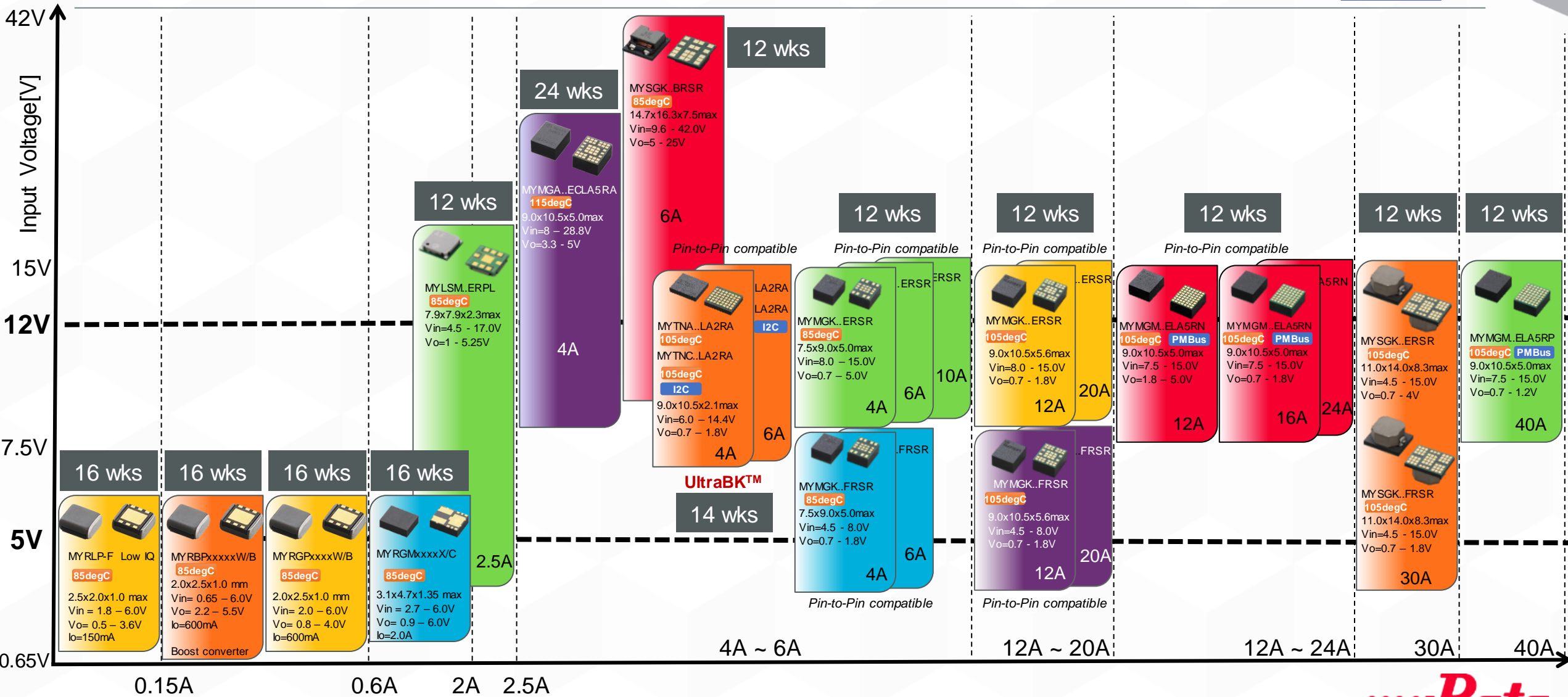
PicoBK™ series ultra-small form-factor

Select for Landing Pages

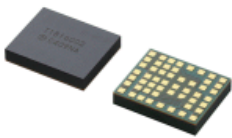
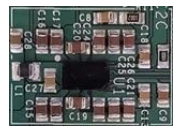
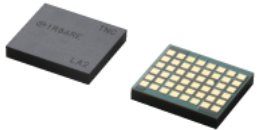
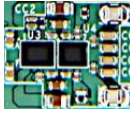
Point-of-Load Selector Guide on Next Page

Point-of-Load DC-DC line-up

click images for data sheet



Non-Isolated DC-DC – Charge Pump & 2-stage Buck

Family	Product Image	Description
UltraCP™		Used in 24V or 48V systems to improve system efficiency. Divides the high input voltage down to allow the POL to operate more efficiently. This is a virtually lossless DC transformer - only very small!
FlexiCP™		Discrete charge pump IC with integrated FETs and controller for 2-cell, 3-cell, 12Vin and 48Vin application.
UltraBK™		Family of very low profile (2.1mm) POL with the world's highest efficiency. Single and dual output versions. Includes I2C.
FlexiBK™		Discrete buck regulator IC with capacitive based 2 stage architecture for 2-cell, 3-cell, 12Vin point-of load and 3.3Vin optical TRx application.

UltraCP™ series low-profile module, charge pump – [click for data sheets](#) → [6A](#)

FlexiCP™ series discrete, charge pump IC - [click for data sheets](#) → [4A](#), [6A](#), [10A](#), [8A](#)

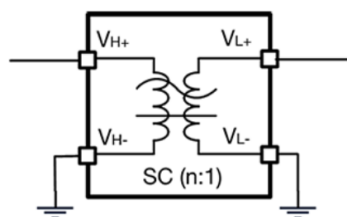
UltraBK™ series low-profile, 2-stage buck – [click for data sheets](#) → [4A](#), [6A](#)

FlexiBK™ series discrete, 2-stage buck – [click for data sheets](#) → [6A](#), [10A](#), [12A](#)

Select for Landing Page

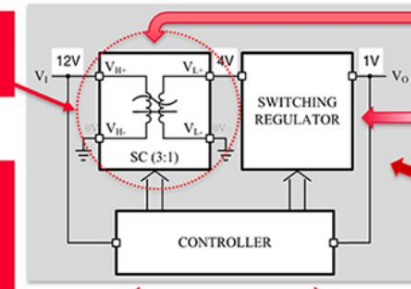
- Power Products **UltraCP™**
- Power Products **FlexiCP™**

Characteristics of Murata's Charge Pump



Think of it as a virtually lossless DC transformer.... only very small...

- Power Products **UltraBK™**
- Power Products **FlexiBK™**



Virtually lossless stage irrespective of conversion ratio!

Efficiency is largely independent of the difference between input and output voltage.

Capacitors do most of the work, enabling greatly reduced inductor sizing.

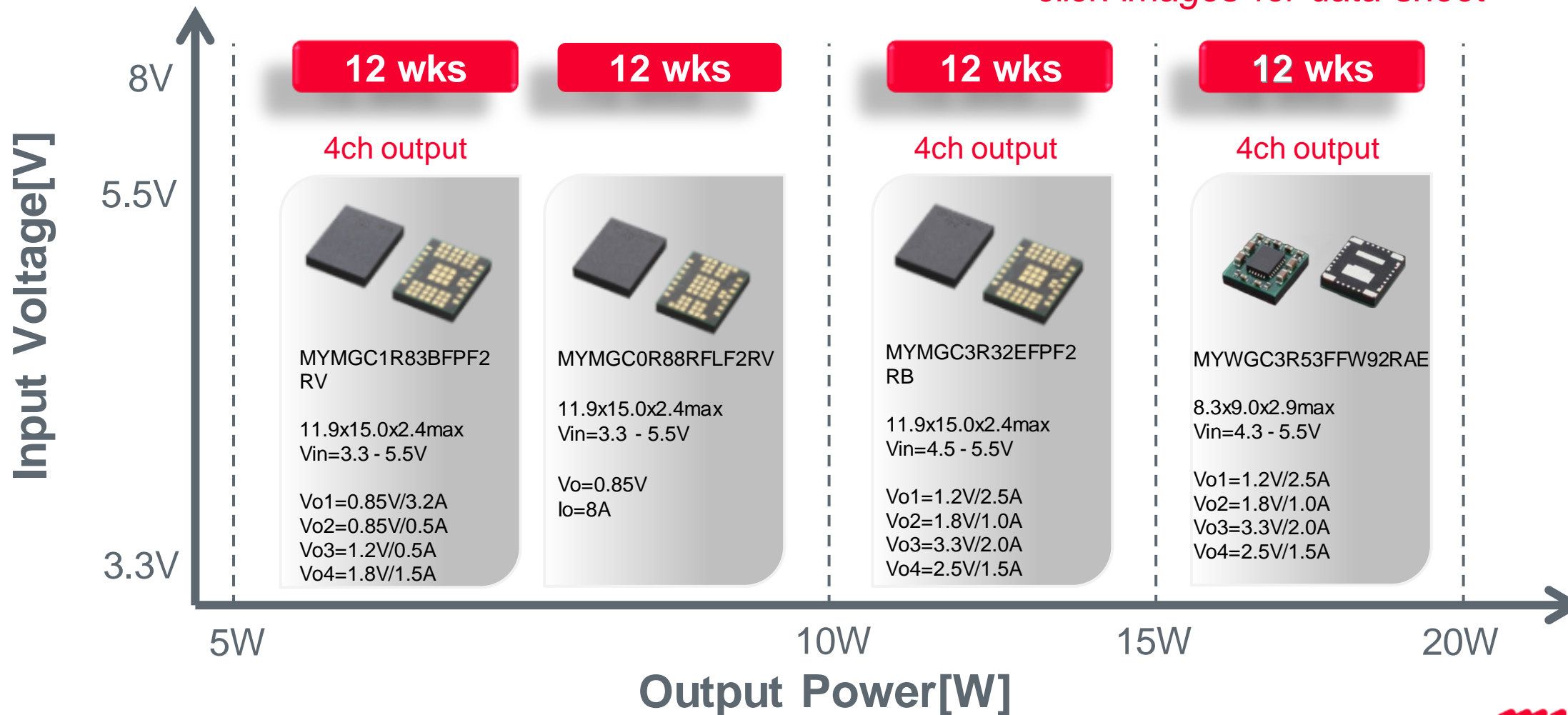
Uses low voltage FETs throughout the power train. Built on standard CMOS.

Power Flow

Point-of-Load DC-DC Line-up for FPGA, DSP, ASIC

- MonoBK™ for FPGA, DSP, ASIC

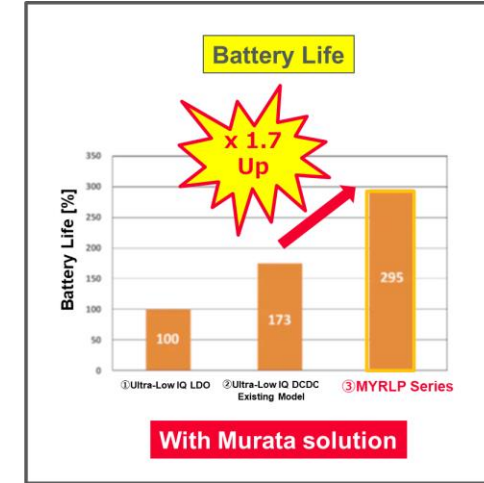
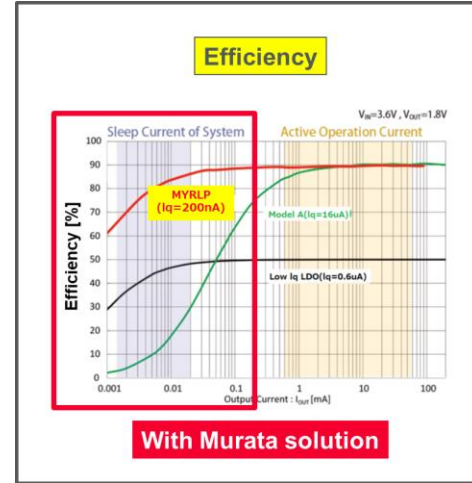
click images for data sheet



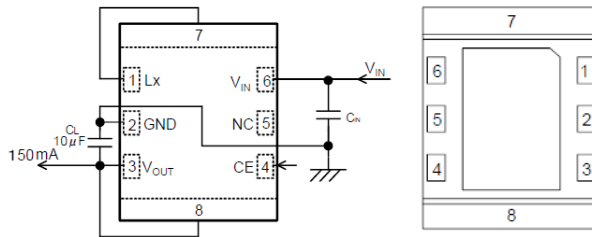
*MYRLP-F Low IQ Series for Battery Application

MYRLP-F Series

Type	: Back Converter
Input Voltage Range	: Operating hold voltage 1.8V – 6.0V (max voltage 7.0V)
Fixed Output Voltage	: 0.5V – 1.0V (±20mV) : 1.05V – 3.55V (±2%)
Ultra-low consumption	: 0.2uA
Output Current	: 150mA
Control Methods	: PFM Control
On/Off control	: Available
CL Discharge Protection	: Available
Protection	: Over Current Limit : Output short-circuit protection
Functions	: Soft-Start
Operating Temp	: -40 to +85degC
Size	: 2.5mmx2.0mmx1.0mm
Environmental	: EU RoHS Compliant



Sample: April 2022
MP: May 2022



■ TYPICAL APPLICATION CIRCUIT

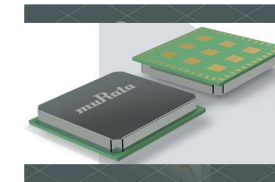
Smart Watch/
Health Tracker



Thermostat



RF Module



Wireless stereo



Entrance System



Cattle Management

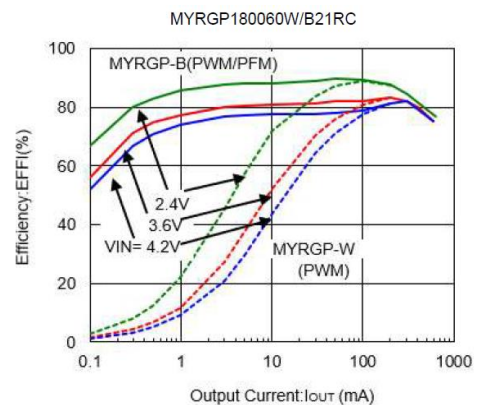


*MYRGP 0.6A Series (Buck Converter)

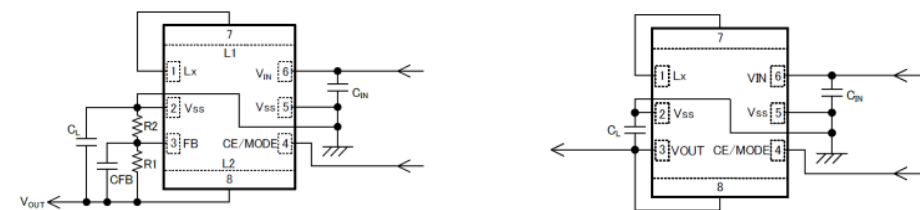
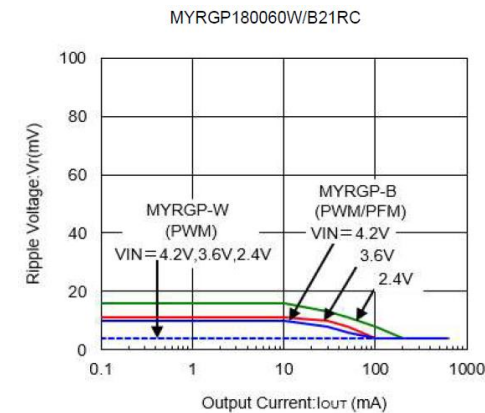
MYRGP 0.6A Series

Type	:Back Converter
Input Range	:2.0V – 6.0V (RC type) 1.8V – 6.0V (RF type)
Adjustable Output	:0.8V – 4.0V (±2%) (RF type)
Fixed Output	:0.8V – 4.0V (±2%) (RC type)
Output Current	:600mA
Control Methods	:PWM, PWM/PFM Control
On/Off control	:Available
CL Discharge	:Available
Protection	:Over Current Limit Output short-circuit protection
Functions	:Soft-Start
Operating Temp	:-40 to +85degC
Size	: 2.5mmx2.0mmx1.0mm
Environmental	: EU RoHS Compliant

Efficiency vs Current



Ripple Voltage



■ RF type CIRCUIT(Adj Output) ■ RC type CIRCUIT(Fixed Output)

Sample: Mar 2022
MP: April 2022



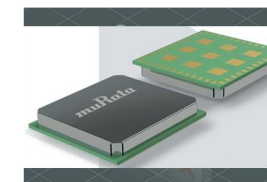
Smart Watch/
Health Tracker



Thermostat



RF Module



Wireless stereo



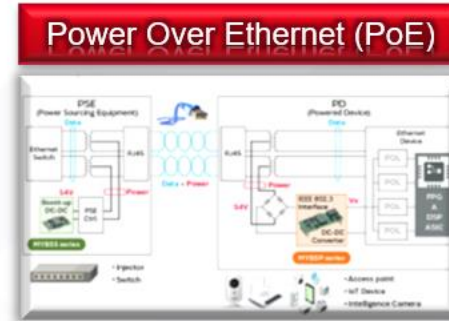
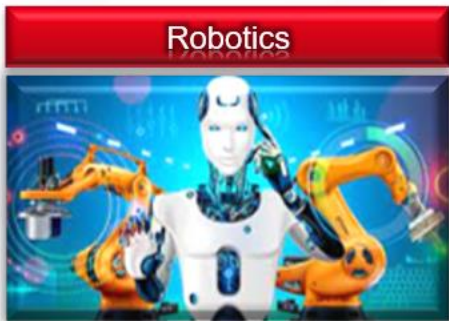
Entrance System



PC & Tablet



Murata Power Solutions by Application



Healthcare & Medical // Applications

Products on Next Page

[Click for brochure](#)

Applications

- Wearables
- Thermometers
- Diagnostic imaging
- Blood pressure monitors

For detailed product information or to submit a sample request, request a quote or technical support click on the buttons below.

Applications

- Inventory Management
- Surgery tool management
- Drug authentication
- Medication control system
- Asset Management
- Consumable product validation
- Brand protection

Applications

- MRI
- X-Ray
- Ultrasound
- Blood pressure monitors
- Telehealth and remote health monitoring systems
- Infusion pumps
- CPAP machines
- Equipment cable isolation
- Robotics

Applications

- Ventilators
- Ultrasound monitors
- ECG equipment
- Hospital beds
- Surgical lights
- Sphygmomanometers
- Incubators

Considerations
in Choosing a
Medical AC-DC
Power Supply

Healthcare & Medical // Power Solutions

Isolated DC-DC
1W and 2W
Single & Dual Outputs
Regulated & Unregulated

250W PSU



PQC250W Series

- Designed to comply with IEC60601-1-2 4th Edition EMC Standard Requirements
- 4.5M hours MTBF

650W/450W PSU

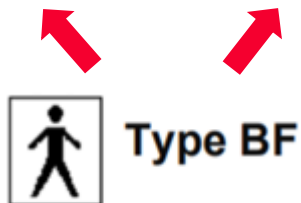


PQU650M Series

1,000W/800W PSU



PQU1000 Series



NXE1 Series



NXJ1 Series



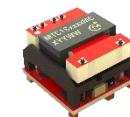
NXE2 Series



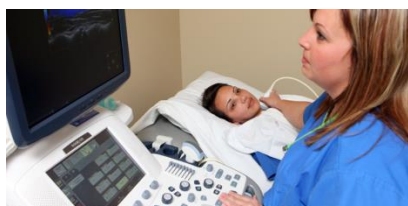
NXJ2 Series



MEJ1/2 Series



MTC1/2 Series



Isolated Gate Drive Solutions
1W to 6W
Optimized bipolar output voltages for IGBT/SiC & MOSFET gate drives

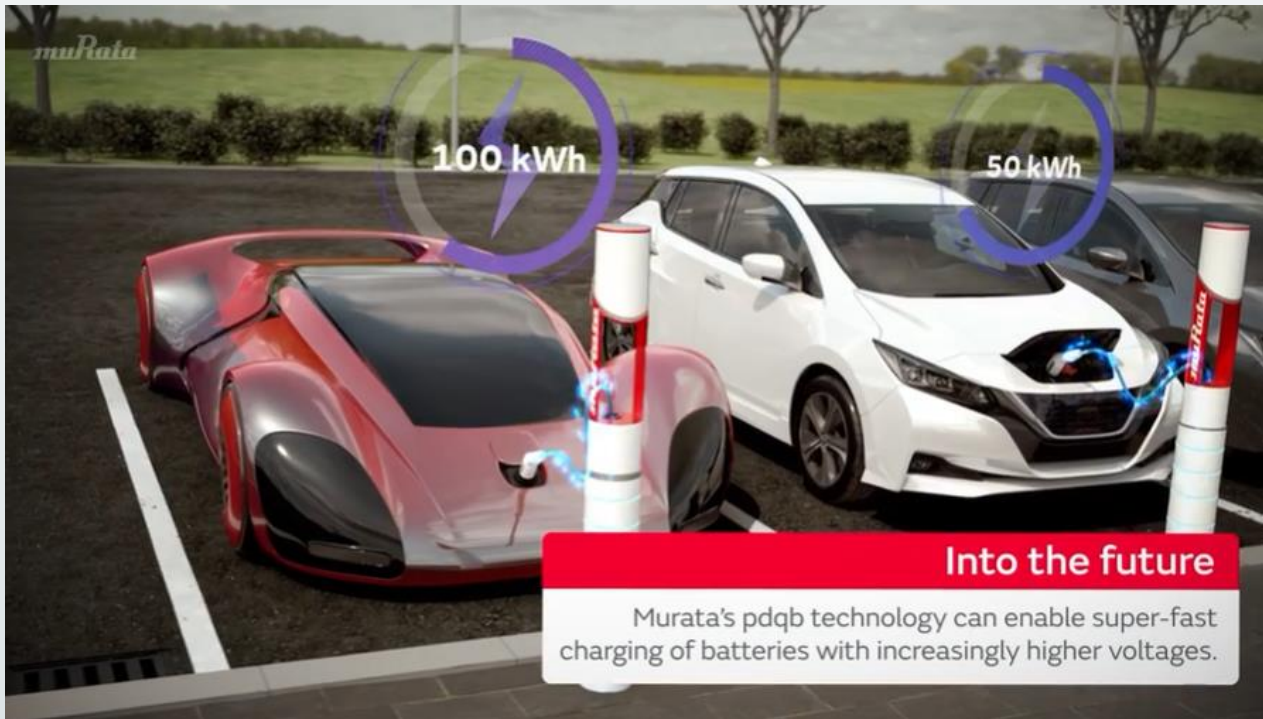


MGJ1 Series



MGJ6 half, full, & 3-phase

muRata



Into the future
 Murata's pdqb technology can enable super-fast charging of batteries with increasingly higher voltages.

Products on Next Page



Autonomous



Connected

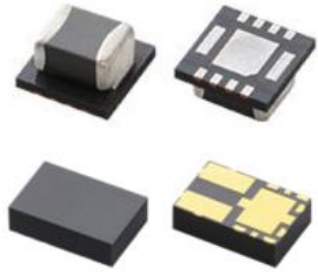


Electric

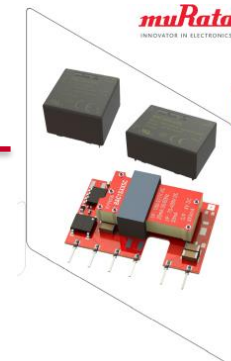


Tomorrow's fast chargers
 Losses are dramatically reduced thanks to Murata's revolutionary winding technology.

Automotive & EV Charging // Power Solutions



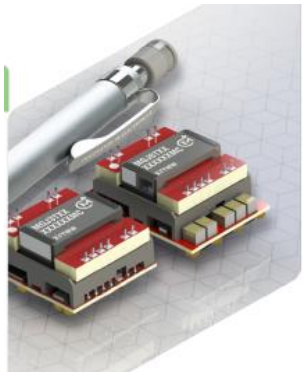
The MYR series
Non-Isolated DC-DC converter
12Vin/24Vin



AC-DC converter BAC Series
Power rating: 1W, 3W, 5W, 10W

PicoBK™ (Smaller POL)

- Inductor Built-in Step-down Regulator
- Inductor Built-in Step-up Regulator
- Inductor Built-in Negative Output Voltage Regulator



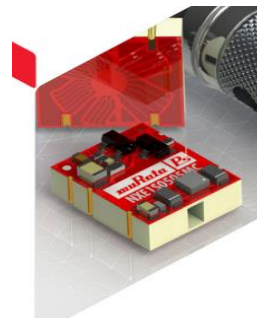
MGJ/MGN Series
Isolated DC-DC converter for gate drive
Power rating: 1-6W



MYM/MYS series
Non-Isolated DC-DC converter

MonoBK™ (Small POL)

- Small Step-down Regulator molded with resin
- Fast transient
- Low noise
- Input voltage: 3.3V to 42V
- Output voltage: 0.7V to 25V
- Output current: 2.5A to 40A



The NXE/NXJ series Isolated DC-DC
Power rating: 1-2W
Ultra low isolation capacitance 2.1pF - 3pF
Low profile

muRata

INNOVATOR IN ELECTRONICS

Servers



Network Switch



Storage Systems



Open Compute Project



Open Compute
and Datacenter
Power Solutions

Products on Next Page



Data Center & Enterprise Computing
Server



> AC-DC Converter 1U Front End

D1U Series



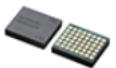
> Isolated DC-DC Converters

DRE/RBS/DRQ Series



> Non-Isolated DC-DC Converters

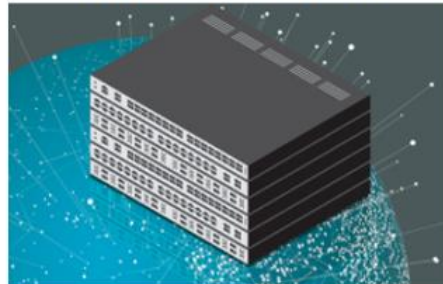
MYMGK Series



> Non-Isolated DC-DC Converters

MYTN Series

Data Center & Enterprise Computing
Network switch



> AC-DC Converter 1U Front End

D1U Series



> Isolated DC-DC Converters for PoE+PD

MYBSP Series



> Isolated DC-DC Converters

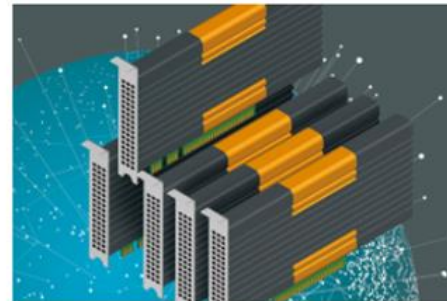
MYB Series



> Non-Isolated DC-DC Converters

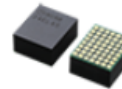
MYMGK Series

Data Center & Enterprise Computing
Hardware accelerator



> Non-Isolated DC-DC Converters

MYMGK Series



> Non-Isolated DC-DC Converters

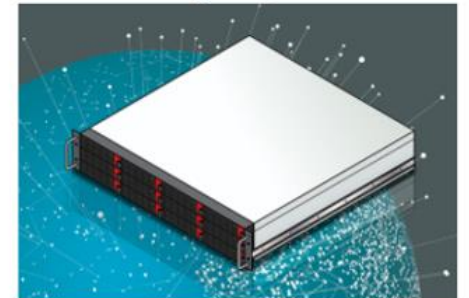
MYMGM Series



> Non-Isolated DC-DC Converters

MYTN Series

Data Center & Enterprise Computing
Storage system



> AC-DC Converter 1U Front End

D1U Series



> Isolated DC-DC Converters

DRE/RBS/DRQ Series



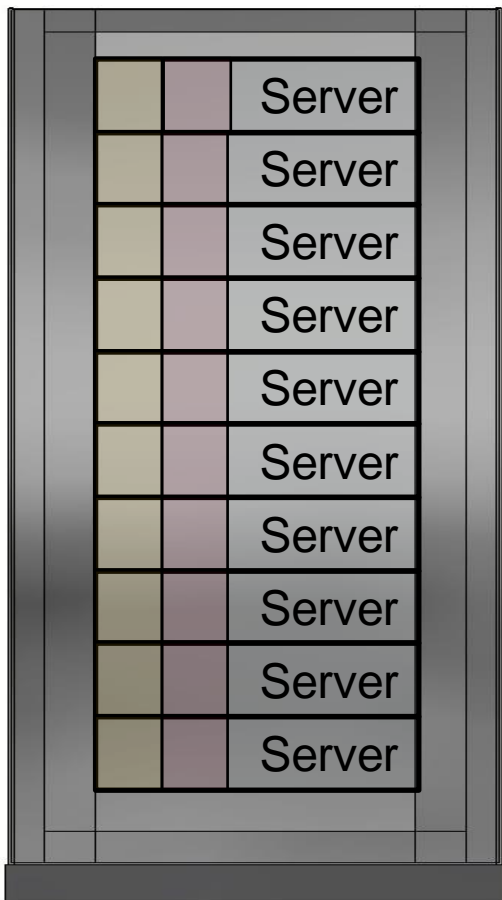
> Non-Isolated DC-DC Converters

MYMGK Series

OCP Centralized Power System



Traditional

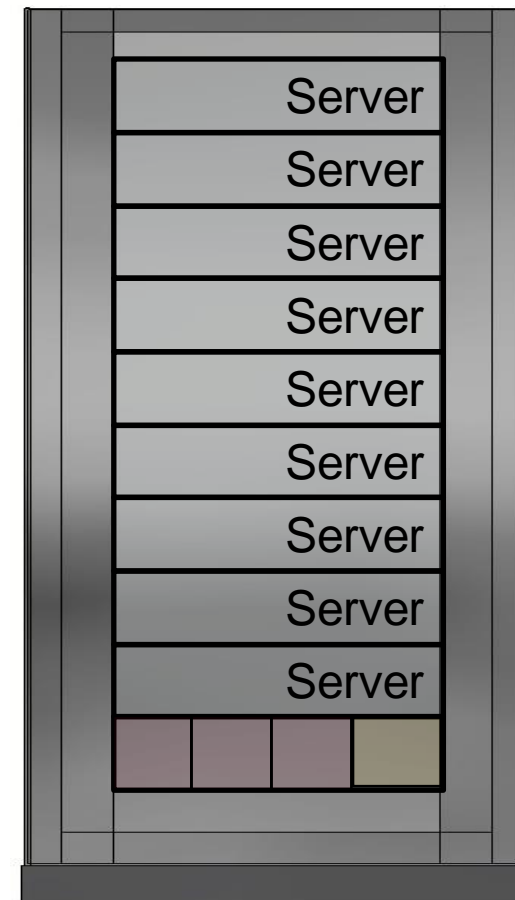


- Only one PSU per rack (N+1) is needed for redundancy
- PSU Efficiency is higher because of higher load ratio.



- Each server has its own PSUs.
* Redundancy requires N+N PSU's for N servers.
- PSU Efficiency is lower because of low load ratio

Centralized



  :PSU

Basic Product Lineup



Power Supply Unit(PSU)

Converts AC input voltage to DC output voltage



Power Shelf

Metal shelf for housing PSU, RMU



Remote Management Unit(RMU)

Controls and monitors the unit inside the shelf
Interface of power system



Input cable

Connect between the power shelves and DC facility to provide AC power to the power shelves



Mounting KIT

Power shelves can be installed to the rack



Railway & Bus Transit Applications

Products on Next Page 



Driver's Cabin

- Cab radio
- Displays
- CCTV
- Wiper
- Headlights

Track Side

- Signaling
- Level crossing
- Communication
- Lighting
- Thermal rail

Propulsion

- Braking
- Axle monitor
- Drive control
- PTC
- Sensors



Robotic Applications & Products

Products on Next Page



Medical / Health Care

- Medical machines, Ultrasound
- Battery powered devices

Warehouse

- Robotic equipment
- Battery powered devices
- Charging systems – AC-DC and DC-DC options

Manufacturing, Industrial Automation

- Autonomous Guided Vehicles

Delivery Vehicles

- Last mile transit, drones

Cleaning Systems

- Autonomous vacuum systems

Industrial & Robotics Power Solutions *(click on product images for data sheet)*

High Power Density Isolated DC-DC

SPM25 Series
1" x 1"
Single output
25W



IRQ-W80 Series
1/4 brick
Single output
Vin=16-160V
150W



UWE Series
1/8th brick
Single output
Vin=18-75V
75W



IRV300 Series
7.3" x 4.6" x 1.6"
Single output
Vin=16-160V
300W



[click here for product offering](#)

- Vin range covering 9 – 160Vdc “Universal Input”
- 10W to 1,000W
- 1/32, 1/16, 1/8, 1/4, 1/2 & full bricks
- 1x1", 1x2" industrial

DSE, DAE & DCE Series

400W Digital Controlled 1/8 Brick

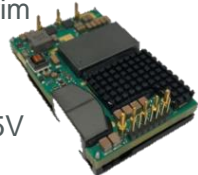
- Industry standard DOSA PMBus compliant
 - **DSE** - DOSA, W / PMBus, sense & trim
 - **DAE** - DOSA, W / sense & trim
 - **DCE** - DOSA 5 pin IBC
- Single outputs: 12V/33A
- 2:1 input voltage range: 36 – 75V
- High efficiency, typ. 95.5%
- 2250Vdc I/O isolation, with basic insulation



DSQ, DAQ & DCQ Series

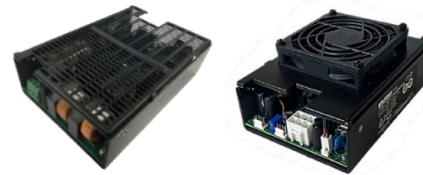
600W Digital Controlled 1/4 Brick

- Industry standard DOSA PMBus compliant
 - **DSQ** - DOSA, W / PMBus, sense & trim
 - **DAQ** - DOSA, W / sense & trim
 - **DCQ** - DOSA 5 pin IBC
- Single outputs: 12V/50A
- 2:1 Input voltage range: 36 – 75V
- High efficiency, typ. 95.5%
- 2250Vdc I/O isolation, with basic insulation



Efficient 650W/450W

PQU650



Where we WIN!
450W no fan @50C
Fan/Cover Option

[click here for data sheet](#)

- Fan less AC-DC in compact 4" x 6"
- Small derating at 70°C

Industrial & Robotics

Industrial 1,000/800W

PQU1000



800W Convection
Small 5" x 8" form factor

[click here for data sheet](#)

- Fan less AC-DC in compact 5" x 8"
- BF Rated
- 95% eff @ 50% load

Industrial/Medical

RFPA (Radio Frequency Power Amplifiers) Applications

Isolated DC-DC bricks for growing telecommunications and networking equipment needs.

Designed to enable hardware engineers the flexibility to meet demanding system design goals, including:

- RF Power Amplifiers
- 5G base stations
- Wireless repeaters
- Distributed antenna systems
- Infrastructure point-to-point radios
- Networking equipment
- Public safety wireless equipment



Distributed Antenna System (DAS)

- Ensure occupants have robust wireless connections throughout your building
- Reduce your dependency on overcapacity mobile towers for signal strength



Products on Next Page



Power Solutions to power GaN PA to the System Loads

click images for product offering

DC Input



Fuel Cells
Batteries
Generators

DC-DC Power

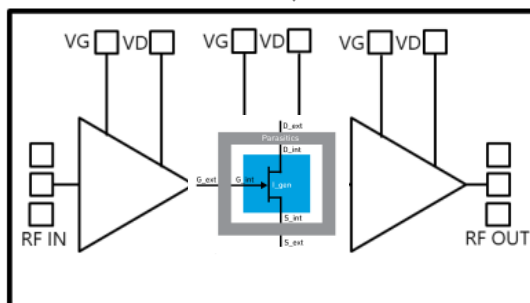
36 – 75V → 14 - 55V

Isolated DC-DC
for GaN RF Amplifiers



600W & 700W

VD (drain
voltage)
= 28V or 50V



GaN RF Power Amplifiers



MPQ600 & MPQ700
On Next Page

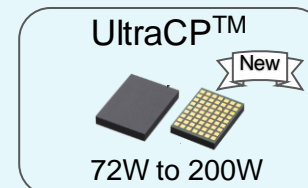


Low-profile, 99% eff,
charge pump

50V or 28V → Div. 4

Non-Isolated

UltraCP™

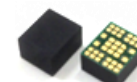


72W to 200W

Point-of-Load

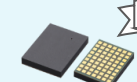
5 to 12V → 0.5 to 5V

MonoBK™



2.5A to 40A

UltraBK™



4A to 10A



RF Power Amplifier, DOSA - PMBus Compliant DC-DC Converters

New!

MPQ600 Series

600W, RFPA 1/4 Brick

- Input Range of 36-75V, (48V nominal)
- Adjustable Output Voltage: 14-35V
- **Optimized for 28Vout GaN Power Amplifier**
- Efficiency up to 96.5%
- 2,250Vdc I/O isolation, with basic insulation
- Baseplate for Cooling Optimization

[click for data sheet → MPQ600 Series](#)



New!

MPQ700 Series

700W, RFPA 1/4 Brick

- Input Range of 36-75V, (48V nominal)
- Adjustable Output Voltage: 25-55V
- **Optimized for 50Vout GaN Power Amplifier**
- Efficiency up to 97.7%
- 2,250Vdc I/O isolation, with basic insulation
- Baseplate for Cooling Optimization

[click for data sheet → MPQ700 Series](#)



Blockchain & Artificial Intelligence (AI)

Products on Next Page

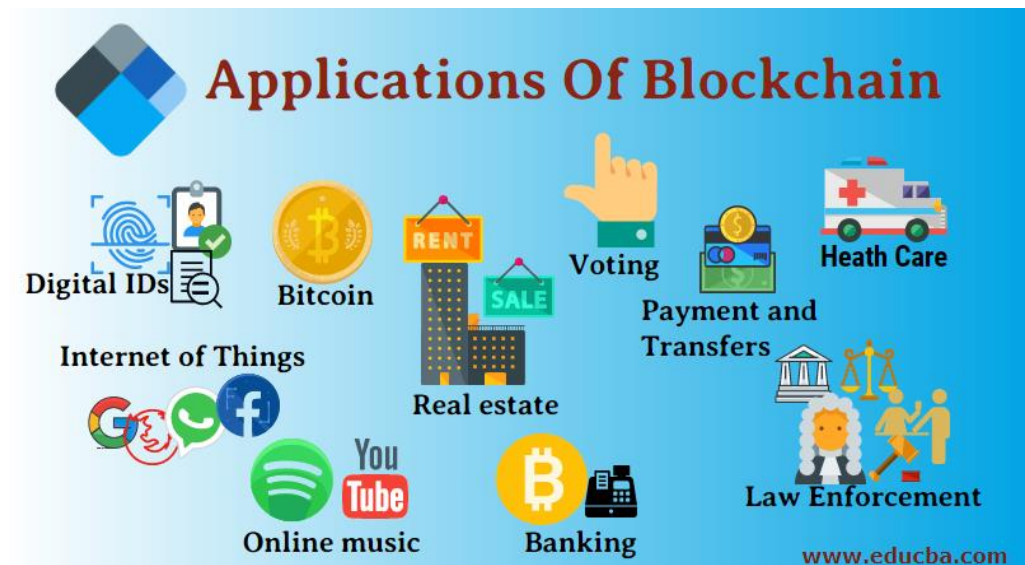
Blockchain

- Bitcoin Mining and Crypto Mining
- Bitcoin ATMs

Artificial Intelligence

- Machine Learning
- Deep Learning
- Predictive Analysis
- Automation

AI and blockchain are two technologies that are changing the way we live and work, and with companies like Murata leading the way in energy-efficient products, the future looks bright!



Power Products for Blockchain & AI

More Products on Next Page



Enclosed AC-DC Power Supplies

- D1U54 Slim AC-DC Distributed Power Front Ends
- D1U86 AC-DC Power Front Ends
- D1U74 CRPS AC-DC Distributed Power Front Ends
- D1U68T AC-DC Front End Power Module

OCP Series Chassis Mount

- 21" OCP and 19" EIA rack widths
- Open Rack V1 & V2 (41OU) Equipment Racks

PSU for Bitcoin & Crypto Mining

- 1,600W – 2,700W CRPS
- With ASIC Miner Power Kit

Isolated Board Mount DC-DC

- 15W to 800W, DOSA bricks, PMBus
- Vin range covering 9 – 160Vdc “Universal Input”
- 3.3V to 54Vout

Power Products

Front-End AC-DC Power Titanium & Platinum Efficiency

click for Landing page → [Front-End Power Supply Unit](#)



Data Center & Open Compute

Power Shelf

click for Power Shelf → [Power Shelf](#)

Data Center & Open Compute

PSU

click for PSU → [Power Supply Unit](#)

1600Watt ASIC Miner Power Kit

2700Watt ASIC Miner Power Kit

click for Landing page → [Titanium ASIC Miner Power Supply Kits](#)



Power Products

Regulated DC-DC Power Converters

click for Landing page → [DC-DC Power Converters](#)



Power Products in Blockchain & AI

More Products on Next Page



1600Watt ASIC Miner Power Kit

2700Watt ASIC Miner Power Kit



Power Products for AI...Powering 256 AI Chips

Sub System PSU
(3kW-3.6kW) N+1

Sub System Shelf
(15kW-18kW) N+1

11 Shelves Per Rack
18kW x 11 ~ 200kW

Rack
256 Accelerators



PoE Applications (Power Over Ethernet)

Products on Next Page



VoIP Phones

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IP Cameras

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Wireless Access Points

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IPTV Decoders

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Network Routers

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Access Controls

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PoE Lighting

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Remote POS Kiosks

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Fingerprint Readers & Retinal Scanners

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Home Automation PoE

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Keypads PoE

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Factory Floor Automation






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List of PoE Modules

[click for Landing page](#)

Isolated DC-DC converters for PoE

		PD Ctrl.	Size	Product Name	Output	Power	Features	MP Status
PD MODULES	PoE / af	O	 26 x 14.8 x 6.8	MYBSP00502ABF	5V/2A	10W	<ul style="list-style-type: none"> Compliant to IEEE 802.3af Class 0 operation Low profile SMD type Operating Temperature range -40 to +85 ° C Low EMI : compliant with CISPR class B 2250Vdc Input-Output Isolation 	MP
				MYBSP01201ABF	12V/1A	12W		MP
	PoE+ / at	O	 35.5 x 22.4 x 10.55	MYBSP0055AABF	5V/5.1A	25.5W	<ul style="list-style-type: none"> Compliant to IEEE 802.3at Class 4 operation Low profile SMD type Available continuous 25.5W at +85°C Low EMI : compliant with CISPR class B 2250Vdc Input-Output Isolation No External capacitor operation 	MP
				MYBSP0122BABF	12V/2.125A			MP
		O	 35.5 x 22.4 x 10.55	MYBSP0055AABFT	5V/5.1A			MP
				MYBSP0122BABFT	12V/2.125A			MP
	PoE++ / bt	N/A	 23.4 x 19.05 x 12.7	MYBTA00512ABT	5V/12A	60W	<ul style="list-style-type: none"> Compliant to IEEE 802.3at Class 8 operation Operating Temperature range -40 to +85 ° C Low EMI : compliant with CISPR class B 2250Vdc Input-Output Isolation 	MP
		O	 22.2 x 56.4 x 8.52	MYBSP0124CAZFT	12V/4.25A	51W	<ul style="list-style-type: none"> Support IEEE802.3bt/ PoE++ class6 2250Vdc Input-Output Isolation Available PSE Indicator and Adapter-Oring Operating Temperature range -40 to +85 ° C 	MP
O		 22.2 x 56.4 x 8.52	MYBSP01206AZFT	12V/6A	72W	<ul style="list-style-type: none"> Output Voltage Adjustable :+/-10% 2250Vdc Input-Output Isolation Available PSE Indicator and Adapter-Oring Operating Temperature range -40 to +85 ° C 	MP	
PSE MODULES	Boost-up	N/A	 35.5 x 22.4 x 10.55	MYBSS054R6EBF	54V/0.6A	30W	<ul style="list-style-type: none"> Low profile SMD type Available from -40 to +85°C Operations input from 10.8V to 27V 2250Vdc Input-Output Isolation 	MP
		N/A	 22.6 x 56.4 x 11.4mm	ULE-53/1.1-D48N-C2	53V/1.1A	60W	<ul style="list-style-type: none"> Industry-standard eighth-brick footprint Operations input from 36V to 75V Full Power @ 65C, natural convection 2250Vdc Input-Output Isolation 	MP

[click for datasheet → MYBSP – 10W/12W Series](#)

[click for datasheet → MYBSP – 25W Series](#)

[click for datasheet → MYBSP – 25W Series \(Oring\)](#)

[click for datasheet → MYBTA – 60W Series](#)

[click for datasheet → MYBSP – 51W Series \(Oring\)](#)

[click for datasheet → MYBSP – 72W Series \(Oring\)](#)

[click for datasheet → MYBSS – 30W Series](#)

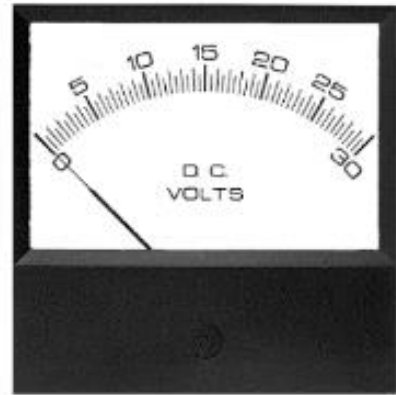
[click for datasheet → ULE – 60W Series](#)



INNOVATOR IN ELECTRONICS

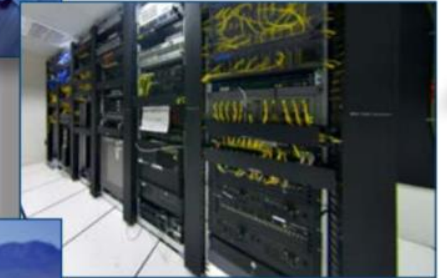
Digital Panel Meters Applications & Products

Products on Next Page



Test & Measurement

Data Centers



Marine

Recreational Vehicles



Digital Panel Meter Products (Click product photo for offerings)

Murata Power Solutions offers a full line of digital panel meters that can accurately measure...

- **AC Volts:** up to 600V
- **AC Amps:** up to 2000A
- **AC Watts:** up to 26.4kW
- **AC Frequency:** 45 to 450Hz
- **DC Volts:** up to 430V
- **DC Amps:** up to 1200A
- **Temperature:** -40 to +100°C (-40 to +212°F)
- **Process Control:** 4 – 20mA Current Loop

[A full line of accessories and tooling is available, including shunts and CTs](#)



AC Ammeter Digital Meter



DC Ammeter Digital Meter



Multi Function Digital Meter



Process Monitor Digital Meter



Digital Thermometers



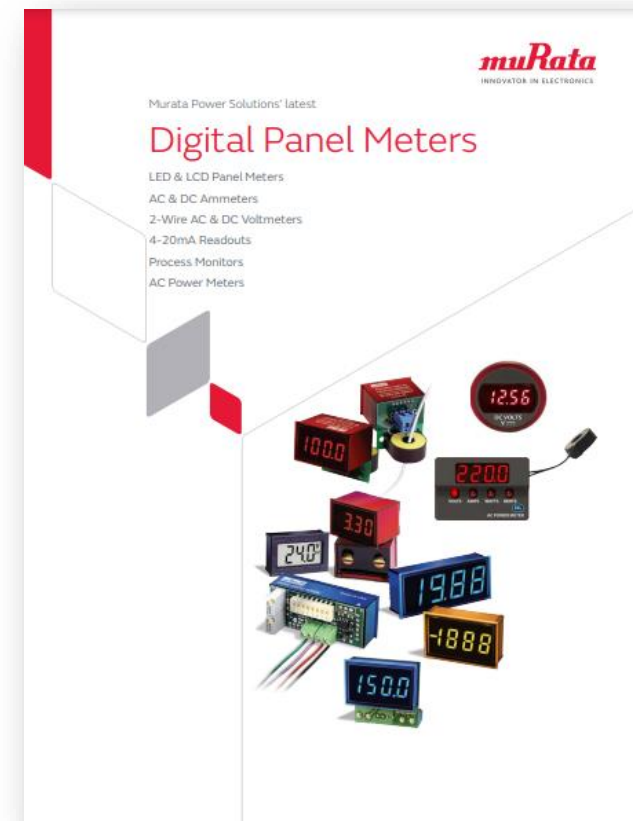
AC Line Frequency Monitor



AC Voltmeter Digital Meter



DC Voltmeter Digital Meter



[Click for brochure](#)

ionissimo Installed Applications

Products on Next Page 

Room air conditioner



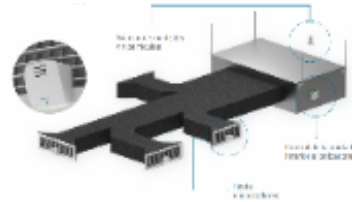
Ionizer

Central room air conditioner



Ionizer

Central industrial air conditioner



Ionizer

Circulator for clothes



Ozonizer

Air purifier



Ionizer

Purifier for microphone



Ozonizer

Refrigerator



Ozonizer/Ionizer

Washer



Ozonizer

Dishwasher



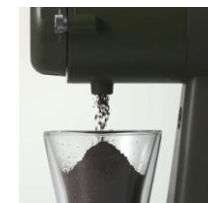
Ionizer

Dental milling machine



Ionizer

Coffee mil



Ionizer

ionissimo: Products Landscape 2022



Items	Parts number	Picture	Status	Input voltage	Ion amount at 20cm	Ozone density	Applications
Datasheet →	MHM305 series		MP	12Vdc	-5Mpcs/cc	0.04mg/h	Air conditioner, refrigerator, dishwasher, air cleaner, car accessory for air cleaner, humidifier, dehumidifier, e.g.
Datasheet →	MHM306 series		MP	12Vdc	-5Mpcs/cc	0.6mg/h	
Datasheet →	MHM314 series Safety approval : UL867		MP	12Vdc	-8Mpcs/cc	0.1mg/h	
Datasheet →	MHM320 series NEW		MP	12Vdc	-8Mpcs/cc	0.8mg/h	
Datasheet →	MHM400 series		MP	12Vdc	+5Mpcs/cc	0.1mg/h	
Datasheet →	MHM402 series		MP	230Vac	-4Mpcs/cc	0.4mg/h	
Datasheet →	MHM411 series (sample available in Apr, 22)		Under developing	100Vac-120Vac	-3Mpcs/cc	0.2mg/h	
Datasheet →	MHM500-00A		MP	12Vdc	-	1.1mg/h (30% duty)	
Datasheet →	Active Oxygen Module (Ozonizer) MHM501-00 (high reliability)		MP	12Vdc	-	1.0mg/h (30% duty)	Refrigerator, air purifier, humidifier, dehumidifier, e.g.
Datasheet →	MHM502-01A (high density ozone)		MP	12Vdc	-	45mg/h	washing machine

Optical Transceivers - Power Tree



Form Factor: SFP (Small Form Factor Pluggable)



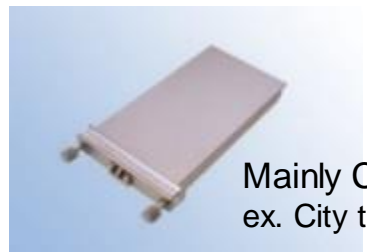
Mainly Access Network
ex. Server to Server

Form Factor: QSFP (Quad SFP)



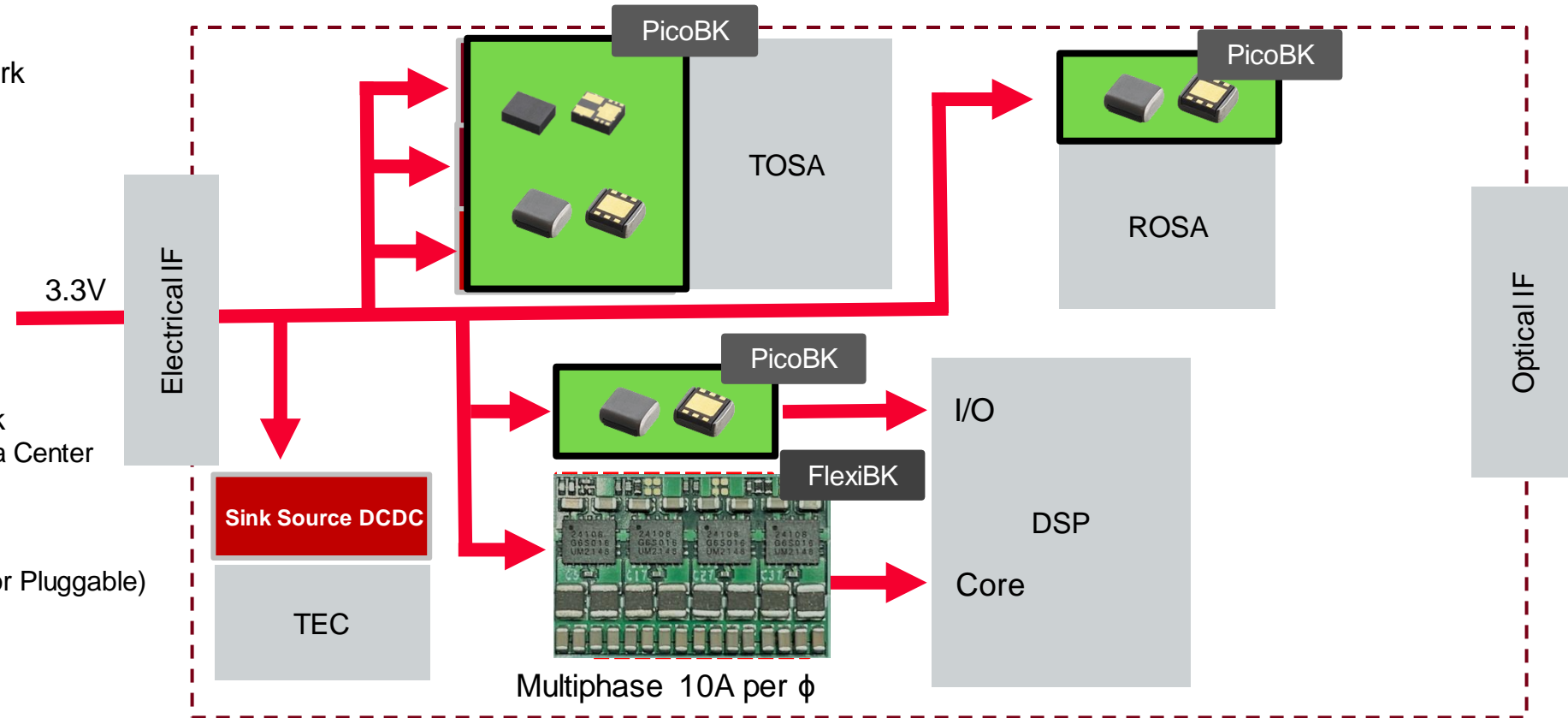
Mainly Metro Network
ex. Data Center to Data Center

Form Factor: CFP (C Form Factor Pluggable)



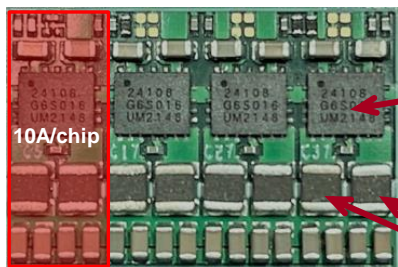
Mainly Core Network
ex. City to City

Function Block of Optical Transceiver (QSFP-DD)



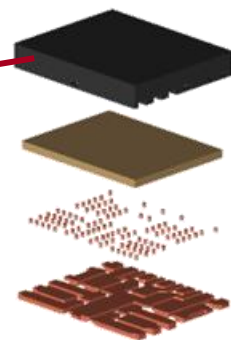
FlexiBK™ PE24108

3.3Vin, low Vo, 10A, 2-stage buck regulator IC



4 in parallel EVK

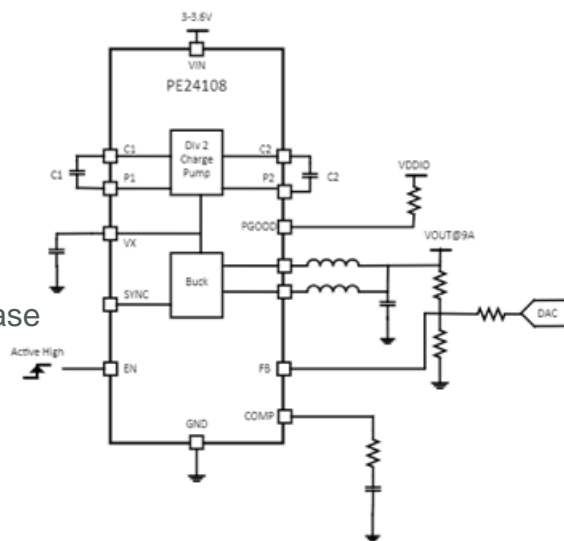
Chip inductor
2.5 x 2.0 x 1.2 mm



4.0 x 3.2mm (LGA)

Key Features

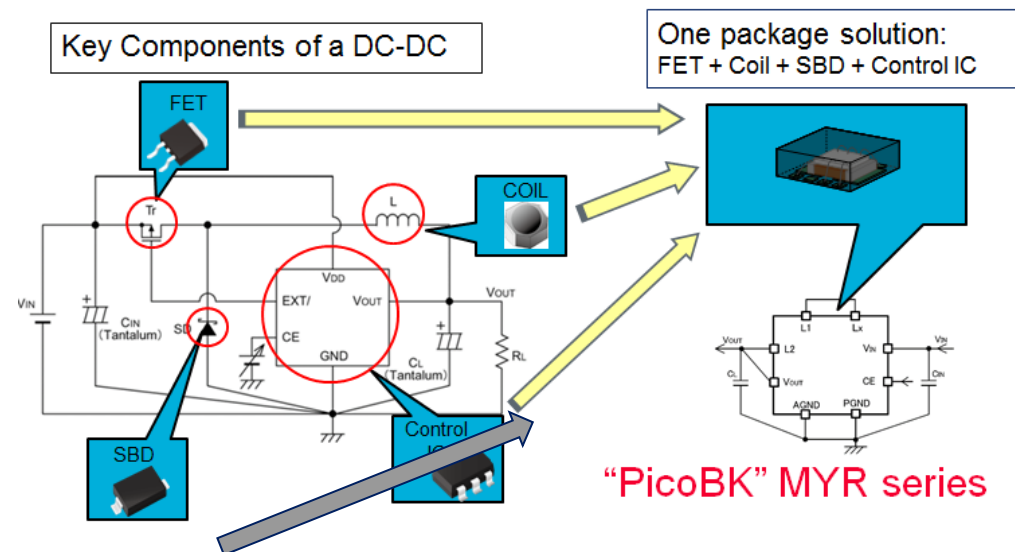
- 2-Stage architecture: charge pump + buck regulator (div.2) (dual phase)
- VIN: 3.0 – 3.5 VDC
- VOUT: 0.37 – 0.9 VDC
- IOU: 10A - paralleled up to 4 phase
- Ultra low profile
 - (< 1.2mm) for back side of PCB
- Low input ripple



PE24108, click for product → [FlexiBK](#)

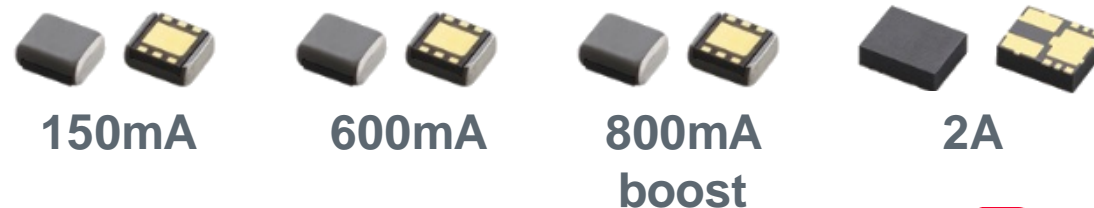
PicoBK™ 150mA – 2A

Thin and small size DC-DC converter with integrated inductor and control IC



“PicoBK” MYR series

Input voltage range :0.65V – 6.0V
Fixed output voltage :0.5V – 6.0V



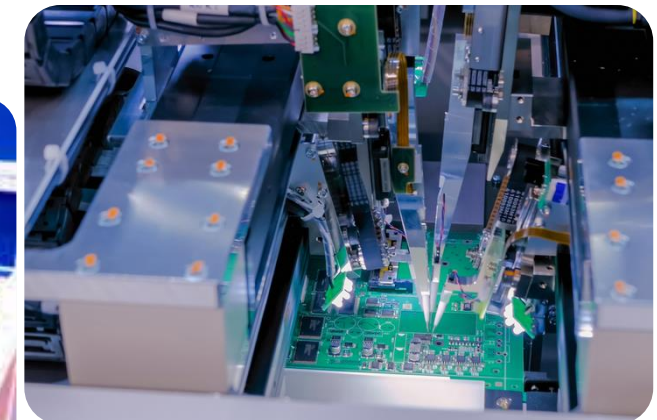
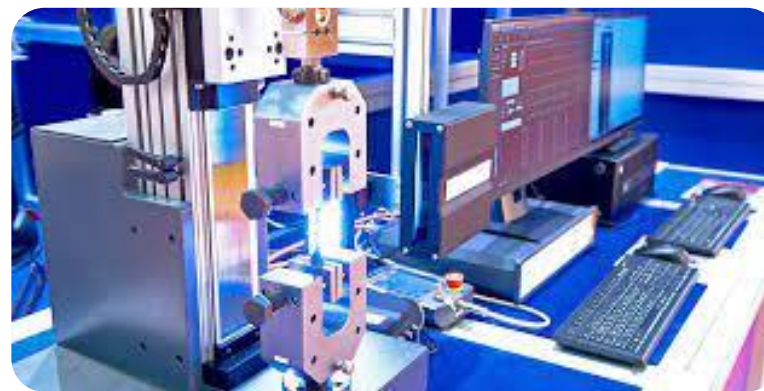
MYR Series, click for products → [PicoBK](#)

Automatic Test Equipment (ATE)

Products on Next Page 

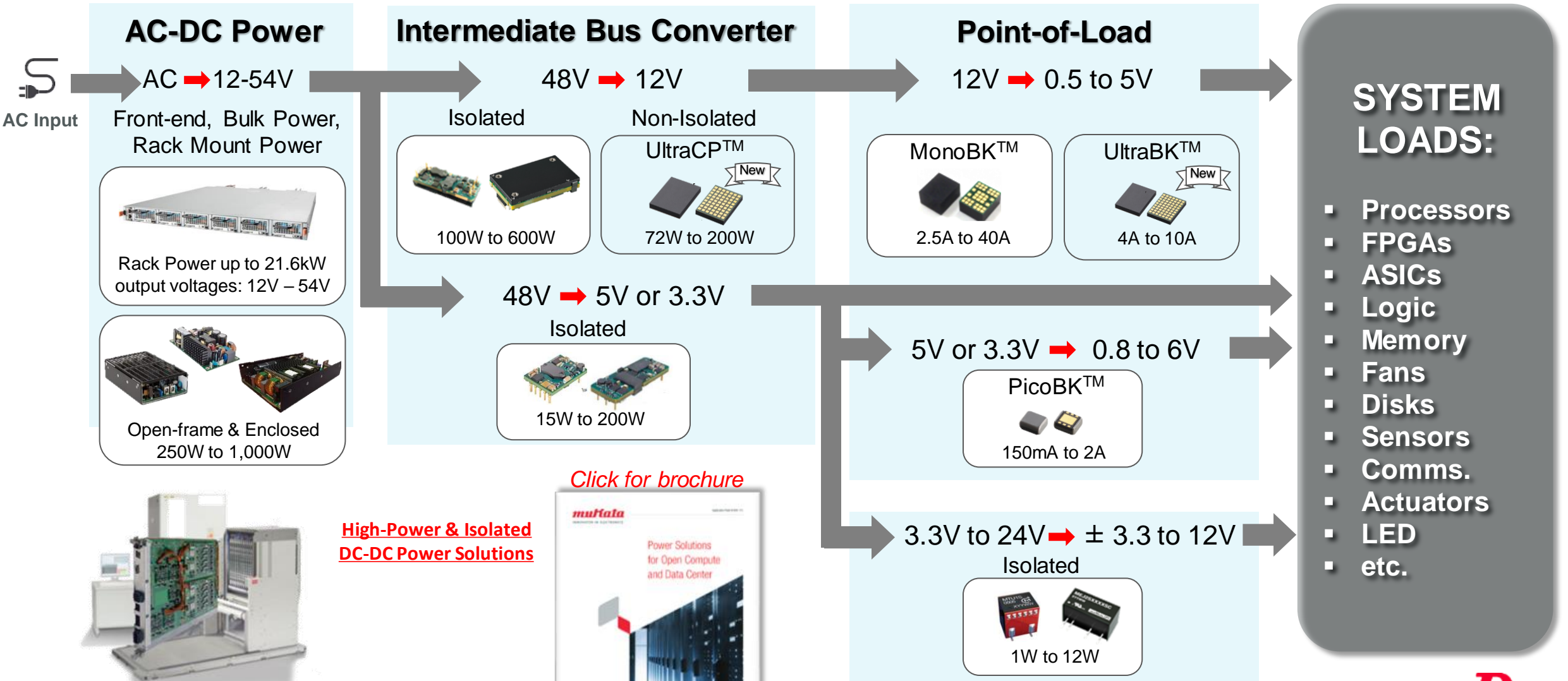
Devices tested by ATE include:

- integrated circuits (ICs)
- printed circuit boards (PCBs)
- hard disk drives (HDDs)
- systems and modules in automobiles
- line-replaceable units (LRUs) that support aircraft, spacecraft, and satellites
- **Hardware**, including standard 19-inch rack mount servers and workstations, **power supplies**, PCIe backplanes and related PXI modules, interface modules, embedded controllers, analog inputs and outputs, digital input/output, and AC-DC outlets

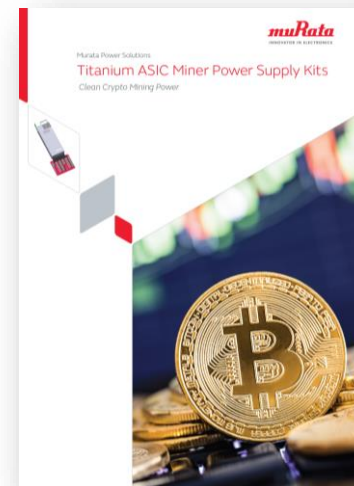
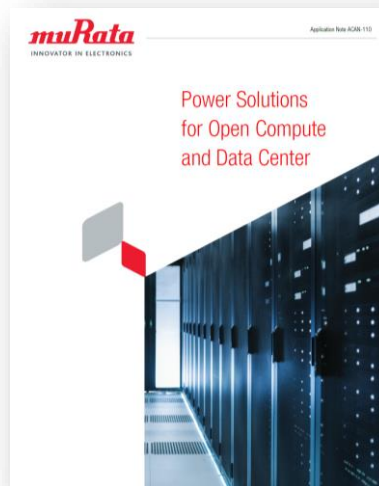


Power Solutions from AC to the System Loads

click images for product offering



Murata Power Solutions - Brochures



Document Control



Version #	Purpose/Change	Date	Author
0.1	Initial Draft	August 9, 2021	Christopher Daily
1.0	Released	September 13, 2021	Christopher Daily
1.1	Updated datasheet links, added NPI products	November 1, 2021	Christopher Daily
2.0	Added CRPS 1,600W, PQU1000, MYC0409 charge pump	February 14, 2022	Christopher Daily
2.1	Updated PoL DC-DC selector guide	April 8, 2022	Christopher Daily
2.2	Updated URL to Front-End PSU image, added new 4-page MPS brochure, updated datasheet links, datasheet for 600mA Buck	May 20, 2022	Christopher Daily
2.3	Fixed PN typos, added 150mA PicoBK ds	June 28, 2022	Christopher Daily
2.4	Added D1U54-D-2500 ds, added MHM411 ds, added D1U54T 2,500W ds	October 3, 2022	Christopher Daily
2.5	Updated L/T on POL lineup, added ATE application, updated brochure links, added MGN1 GaN gate drive datasheet link, added separate links to images for Charge Pump 2-stage Buck; MonoBK PicoBK	February 24, 2023	Christopher Daily
2.6	Added technical article links to PMBus and Choosing a medical PSU, and PoE landing page, added new DC-DC for Healthcare brochure, removed 10A MYC0300 & 4Ax4 pSemi device – no longer under development. PE24108 can now provide 10A per phase. Added new 51W low-cost version POE device	June 26, 2023	Christopher Daily
2.7	Updated Rail IRH 150W solution on applications. 4-channel MonoBK for FPGA, & new 4A released. MGJ1/2B gate drive released. Updated OCP selector guide, updated all NCL products & images. New OCP shelf and PSU. Added NME1, NMR1, NMV1 iso. Dc-dc. Updated POL L/T	August 25, 2023	Christopher Daily
2.8	Updated MonoBK lead times, added link to new 4-ch output & 3.5A MonoBK, added PQU1000-COVER Link, added new FlexiCP 4A device. D1U54P 2,000W To be Discontinued.	December 13, 2023	Christopher Daily
3.0	New MPS PPTX layout, New 20A MonoBK, removed MVAC400, added Blockchain & AI application	March 1, 2024	Christopher Daily
3.1/2	Update BMP selector guide, new 10A MonoBK, new pSemi non-isolated solutions, updated PoE links	April 8, 2024	Christopher Daily
4.0	Updated the layout and color scheme to represent MMC guidelines	June 6, 2024	Christine Tarantino
4.1	6A MonoBK 9.6Vin min, updated FlexiBK, added MPQ860 non-isolated DC-DC & MPQ700 isolated, updated BMP products,	August 15, 2024	Christopher Daily
4.2	NCL Group no longer supporting High-Frequency, High-Power transformer, New MPQ700, 1300, 860, & 1500. updated FEP selector guide	September 12, 2024	Christopher Daily
4.3	Fixed link on MPS0117 1/16 th brick, added UEE Series isolated DC-DC brick, updated many BMP solutions from EOLs. Added RFPA application.		