

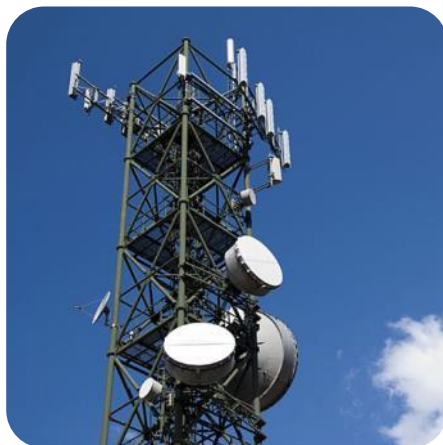


Solution Selling Examples

2019

The Markets We Serve – IM&D

Focused on Application-Specific Power Conversion Products and a Wide Range of Standard and Configurable Products



Computing & Storage

- Enterprise Servers
- Enterprise Storage
- Hyperscale/Cloud Computing



Server Power Supply

DC-DC Voltage
Regulators Modules

Telecom & Networking

- Wireless Infrastructure
- Wireline Infrastructure
- Enterprise Networking



High-Efficiency
Rectifier



Telcom Power
System

Industrial & Medical

- Factory Automation, Process Control
- Automated Banking, Retail Automation Security
- Imaging
- Analysis and Monitoring



Configurable
Power Supply



Industrial Bulk
Power Supply

Portable & Consumer

- Adapters
- Wallmounts
- Externals



Artesyn's Best Products that Aligned with Industrial, Medical, LED, Robotics, Computing, Storage, Telecom & Networking Applications

Best Products – www.artesyn.com

New



iHP iVS iMP uMP

Medical / Industrial / LED
Configurable Power Supplies

CONFIGPRO



LCM Series

Medical / Industrial
Low Cost
Bulk
Power Supplies



LCC Series

Medical / Industrial / LED
Conduction Cooled
(Fanless)
Power Supplies



LP / LPS

General
Purpose
Low Power
Power Supplies



DS Series

Computing /
Storage /
Networking
Power Supplies



CRPS CSU Series

Common Redundant
Power Supply (CRPS)
Server /Storage/
Networking



LGA80D

General
Purpose
High Current
DC-DC

Best Applications



High Power
LED Green
House
Lighting



Medical
Imaging



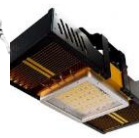
Semiconductor
Fabrication/Test



Industrial
Signs



Industrial
Robots



Mid Power
LED Lighting



ATM / Cash
Machines



Test &
Measurement



Telecom /
Networking
Switches &
Routers



Server &
Storage



Telecom /
Networking
Digital Boards

Align Focused Accounts to Best Products & Applications within each Territory

Expand Customer Base with Net New Business with Artesyn Standard Products!

Industrial / Medical / LED
Robotics

Design Win's & Revenue Growth
are the Measure of Our Success!

Computing & Storage /
Telecom & Networking

Artesyn Products

Embedded Power Selector Guide

AC-DC

Modular

iMP Series
Up to 1500 W
1 - 21 Outputs



uMP Series
Up to 1800 W
Up to 12 Outputs



iVS Series
Up to 4920 W
1 - 24 Outputs



iHP Series
Up to 24000 W
Up to 8 Outputs



Bulk/Distributed/Enclosed

LCM Series
300, 600, 1000, 1500, 3000 W
85 - 264 Vac
12 - 72 Vdc



DS Series
450 - 3000 W
90 - 264 Vac
12, 24, 48 Vdc



CSU Series
550, 800, 1300, 1800, 2000, 2400 W
90-264 Vac
12 Vdc



CSV Series
1100, 1300, 1600, 2000 W
90-264 Vac
12 Vdc



UFE Series
1300 - 2000 W
85 - 264 Vac
24, 48 Vdc



HPS Series
1 - 3000 W
90 - 264 Vac
48 Vdc



Racks

OCP Compatible
1U,
18 kW



Scorpio
3U,
14.4 kW



UFR
1U, 6 kW
Accepts 3 UFE units



DSR1
1U, 6 kW
Accepts 5 DS units



HPR1
1U, 12 kW
Accepts 4 HPS3000



Adapters

DCH Series
3 W
5 V



DA Series
5 - 45 W
5 - 20 V



AD Series
24 W
12 V



DP Series
40 - 100 W
5 - 64 V



Open Frame

NPS20-M 25 - 40 W
NPS40-M 45 - 60 W
NPT40-M 45 - 55 W
NPS60-M 60 W
LPT100-M 80 - 130 W
LPS100-M 100 - 150 W
CPS250-M 150 - 250 W



2x4

LP40/40-M 40 - 55 W
NLP65 65 - 75 W
LP60/60-M 60 - 80 W
TLP150 100 - 150 W
LPQ200-M 100 - 200 W
LPS200-M 125 - 250 W
LPS360-M 200 - 360 W



3x5

CNS650-MU
400 - 650 W



4x6

NLP250
175 - 250 W



4x7

Fanless/Conduction Cooled

LCC250
250 W



4x7

LCC600
600 W



4x9

Special

ADN-C Series
120 - 900 W
Single & 3-phase
Approved for UL508 &
Hazardous Locations



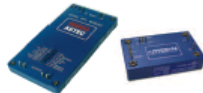
For more information and a complete overview of Embedded Power products and services go to www.Artesyn.com/power

ARTESYN
EMBEDDED TECHNOLOGIES

DC-DC

PFC

Full Brick (AIF)
3/4 Brick (AIT)
1/4 Brick (AIC)



Telecom DC-DC

1/16th brick 35 - 120 W; ALD/AVD
1/8th brick 50 - 300 W; AVQ/ADO
1/4 brick 50 - 800 W; AVQ/ADQ
1/2 brick 300 - 700 W; AVE/ADH
Full brick 500 - 800 W; AGF



Industrial DC-DC

0.5 by 0.5 DIP 2 W, 3 W; AYA
0.9 by 0.5 DIP 3 W; ATA
1.2 by 0.8 DIP 24 W, 10 W; ASA
1 by 1; 10 W, 20 W, 25 W; AXA
1 by 2; 15 W, 40 W, 50 W; AEE
1.6 by 2; 25 W, 30 W; AET



High Power

Full Brick (AIF)
3/4 Brick (AIT)
1/2 Brick (AHI)
1/4 Brick (AIC)
PSE 1000 DC-12



Non-Isolated DC-DC

C2 Class 3 - 60 A LDO, SMT, SIL
LGA package 3 - 20 A LGA
LGA50D, LGA80D 25 - 80 A
LGA50D, LGA80D
POLA package 6 - 60 A PTH



Medical DC-DC

0.8 by 1.2; Medical 6 W; ASA
1 by 2; Medical 10 W, 15 W, 20 W; AEE



Railway DC-DC

1 by 2; Railway 10 W, 20 W; ERM
1/4 brick Railway 50 W, 75 W; ERM



Width range of standard products

Medical Markets



Imaging



Surgery Equipment



Analytical Lab Equipment



Molecular
Diagnostic



Ophthalmic Equipment



Dental Equipment

Industrial Markets



Test & Measurement



ATM / Cash
Dispenser



Wire Bonding /
Manufacturing Equipment



Industrial Signage



Avionic Flight
Entertainment



Semiconductor Test
Equipment

Computing/Datacom/Telecom Markets



Network Server



Data Router



Gigabit Ethernet Switch



Dual load-sharing, hot-swappable power supply in AC or DC

Video Streaming



Telecom Base Station



Data Storage

Telecom Markets

Exchange Equipment



FM Transmitters



Basestations



Other Markets



Test & Measurement



Robotics

Wind Turbines



Consumer: Smart Meters



Telecom Amplifier

Telecom Amplifier

Traditional Remote
Radio Head



Active Antenna
Arrays

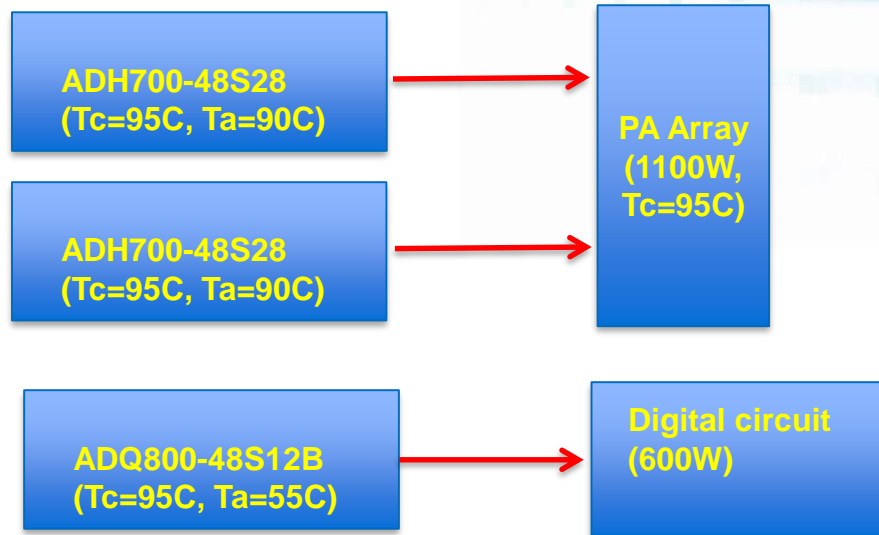


Massive-MIMO
2D Arrays



Telecom Amplifier

under qualification



- Two ADH700-48S28
- One ADQ800-48S12B



Communication Hub for Mine

Communication Hub for Mine

Why LCC250?

- Fanless cooled [✓]
- Input: 90-264Vac [✓]
- Pout: 48V @ >150W [✓]
- Wide operating Tamb [✓]
- High Efficiency [✓]
- IP64 rated with shielded cables
- Solid; robust body structure suitable for rugged environment [✓]
- Good tech support [✓]



AC-DC

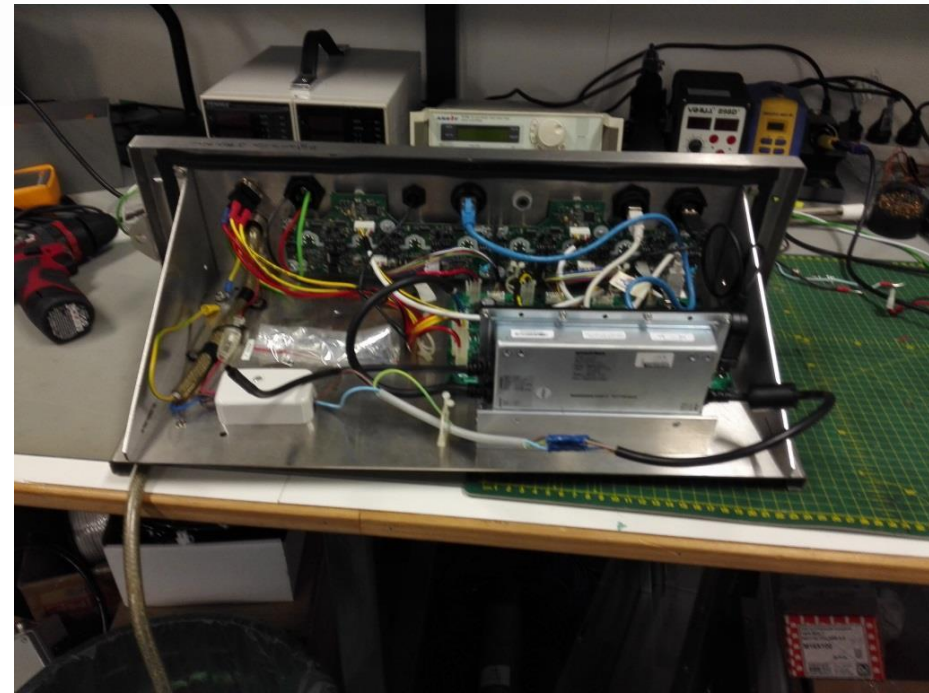
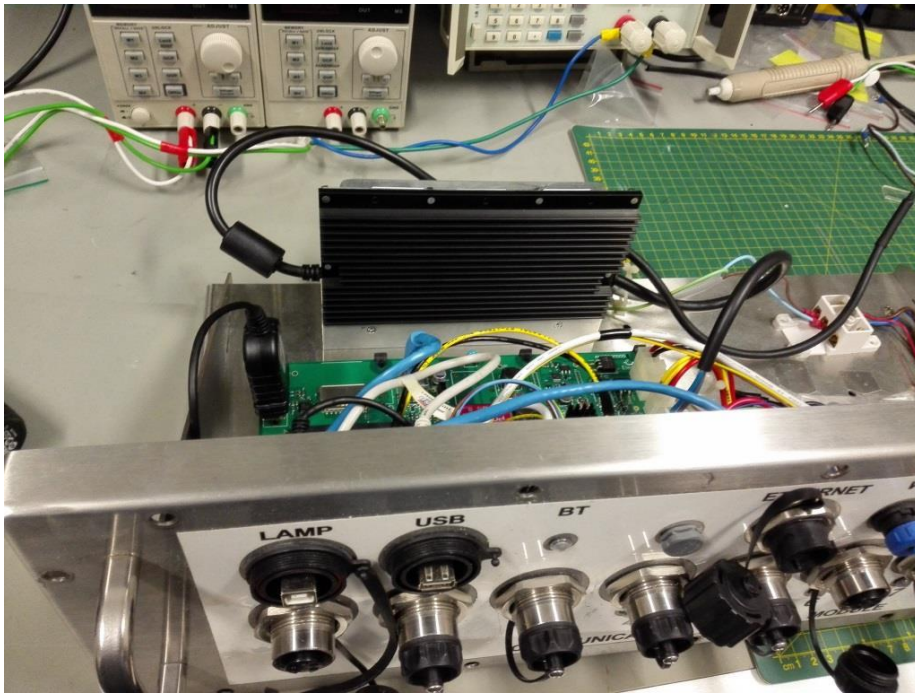
LCC250-48U-7PE

Distributed DC for:-

- Comms peripheral port
- MCU module
- RF transceiver system processing board
- Logic control and etc

Communication Hub for Mine

- Customer system with LCC250-48U-7PE



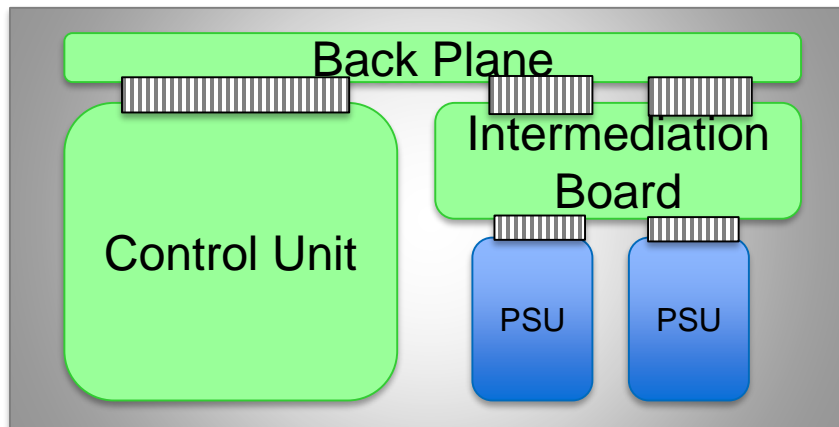


100 Gigabit Switch

100 Gigabit Switch

Real needs vs DS1100PED-3/DS1100SDC-3[actual]:

- Vin: 100Vac, 200Vac, -24Vdc [OK]
- Vout: 12Vdc [OK]
- Load 1890W [OK]
- Redundant [OK]
- Hot swap [OK]
- Small size [OK]
- PMBus [OK]
- Reverse FAN [OK]
- AC and DC model are the same size [OK]
- Cost efficient and tech support [OK]





LED Lighting Source for Optical inspection System

LED Lighting Source

- Optical inspector system using Digital camera is very popular in the manufacturing industry like Semiconductor, PCB, SMT.
- This Camera need lighting source.
- Need Power Supply for lighting source

LED Light Source

제품소개_ LED Light Source _LED Light Source



DLS-018F SERIES

PHOTO

MORE



DLS-050F SERIES

PHOTO

MORE



DLS-050F-W1F8 SERIES

PHOTO

MORE



DLS-150F-RGB SERIES

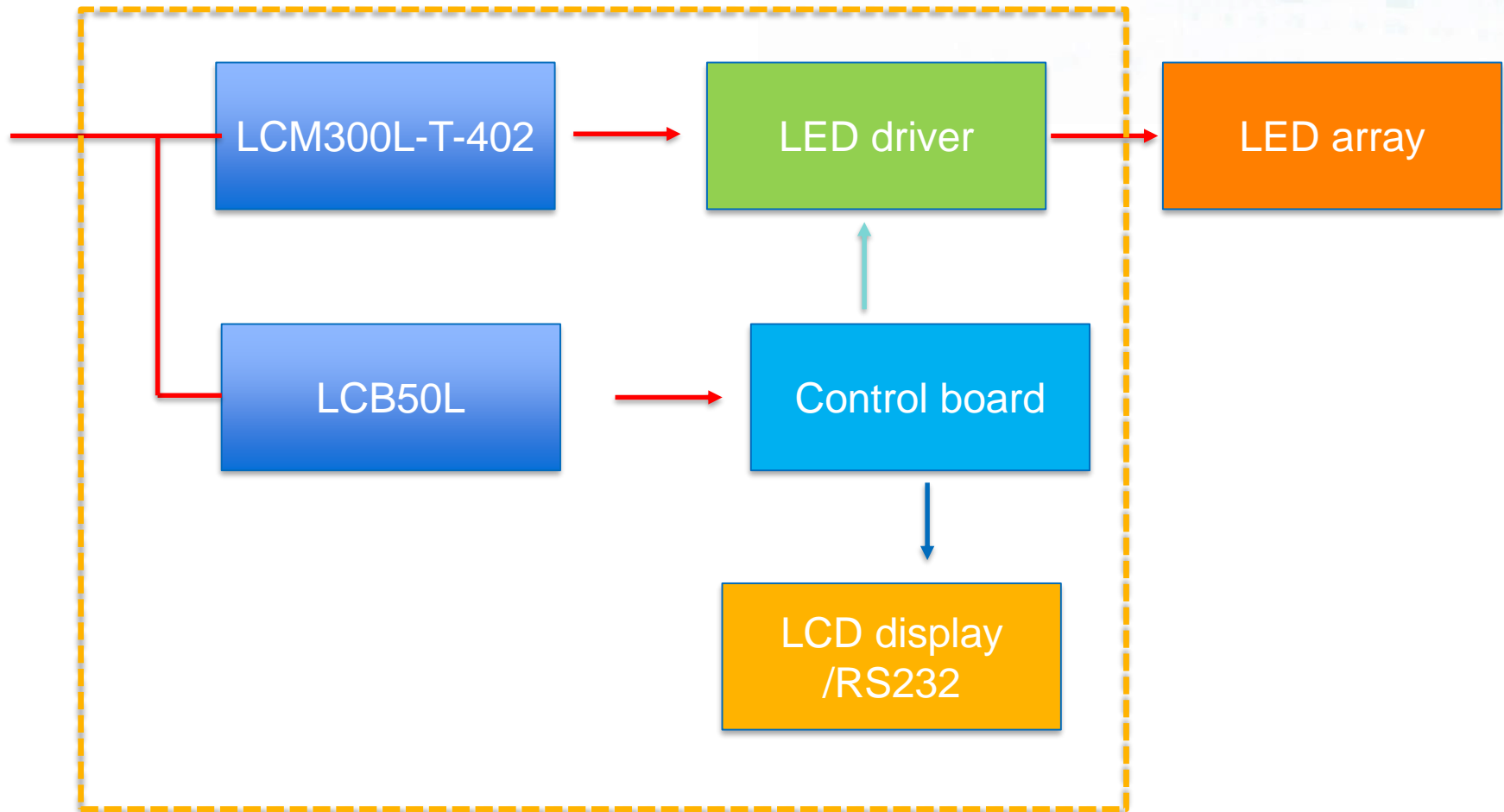
PHOTO

MORE



LED Lighting Source

- LED controller and LED lighting.





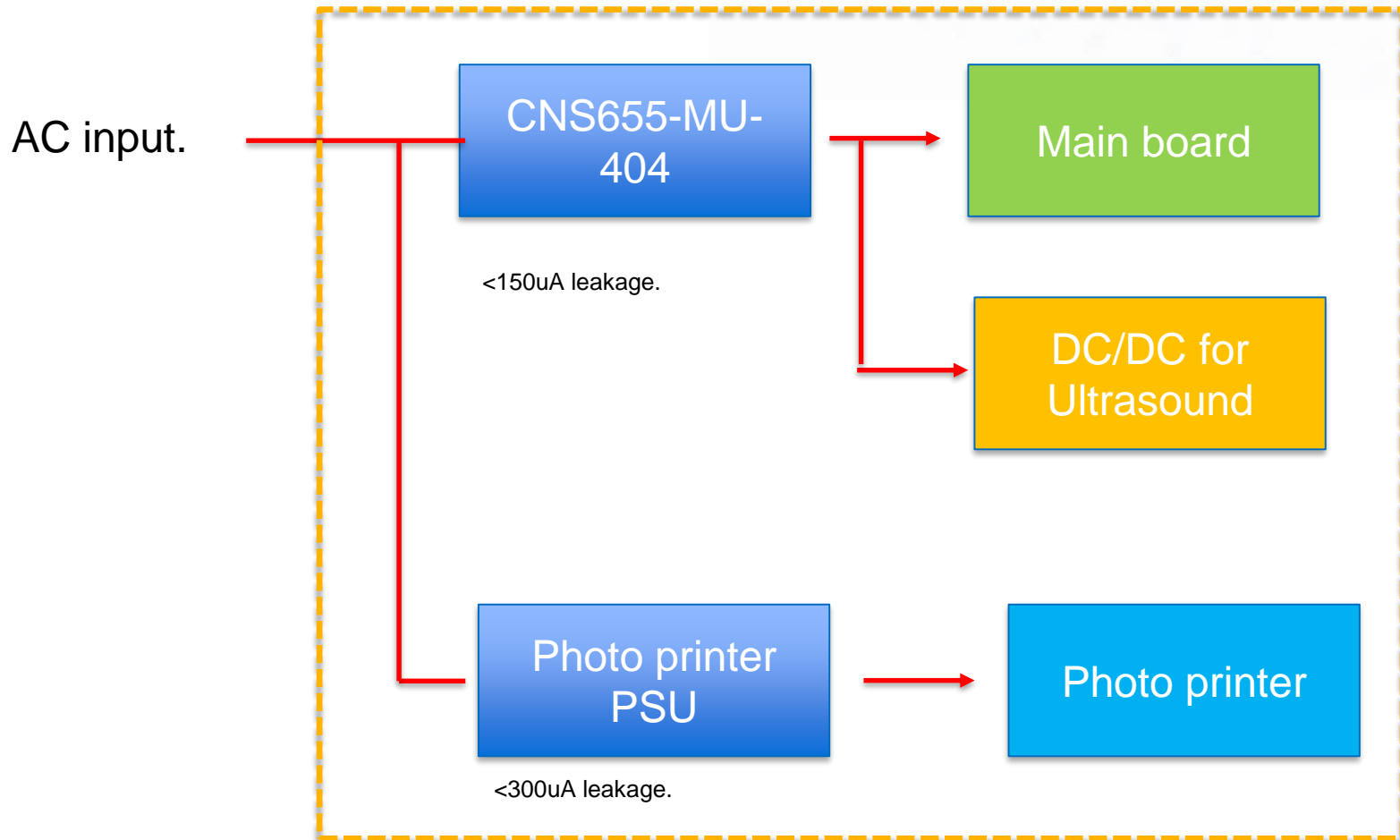
Medical Ultrasound

Medical Ultrasound



Medical Ultrasound

- Need low leakage current PSU < 150uA)
- CNS655-MU MOD request
- Reduce leakage current < 150uA



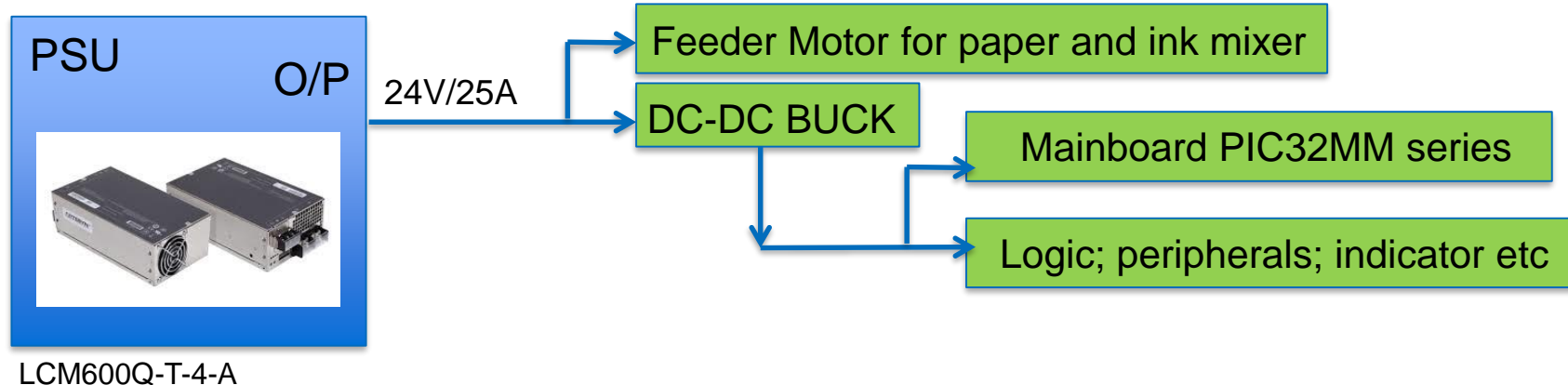
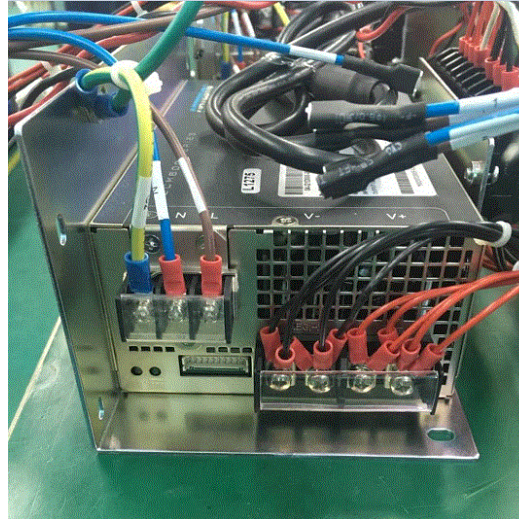


Industrial Inkjet Color Plotter

Industrial Inkjet Color Plotter

Why LCM600Q:

- Vout: 24V/600W max
- Vsb 5V@2A
- Efficiency typ. ~89%
- Reputable power branding
- Cost efficient PSU
- Compact profile with enclosure
- Conformal coating option





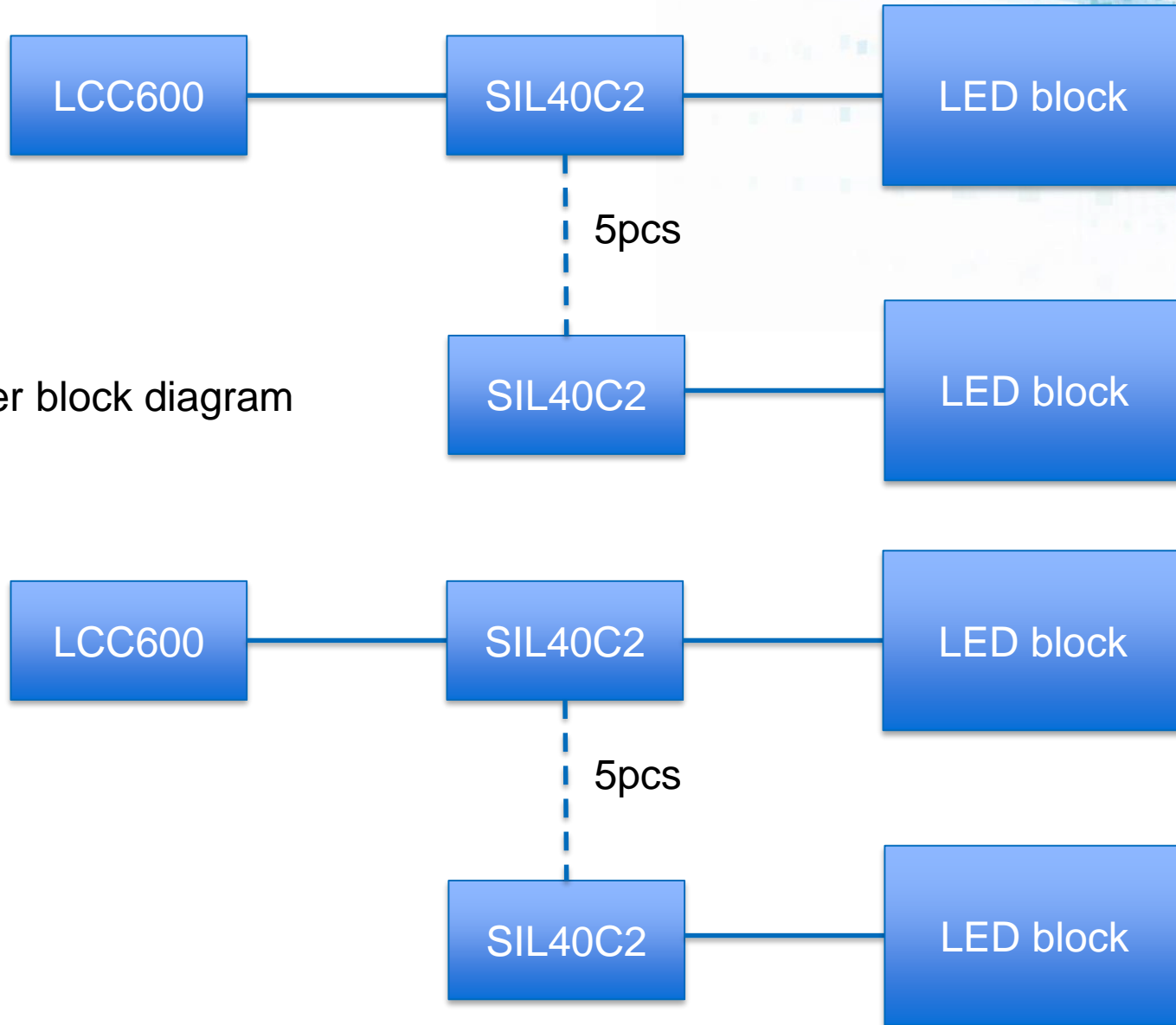
LED Display

LED Display



LED Display

Power block diagram

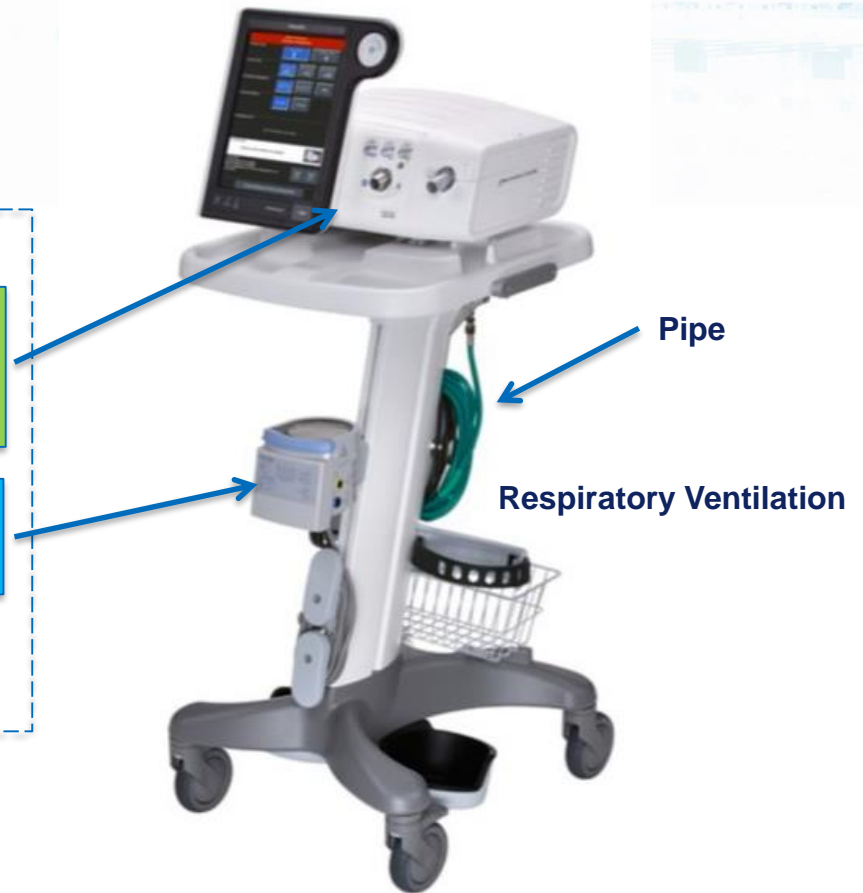
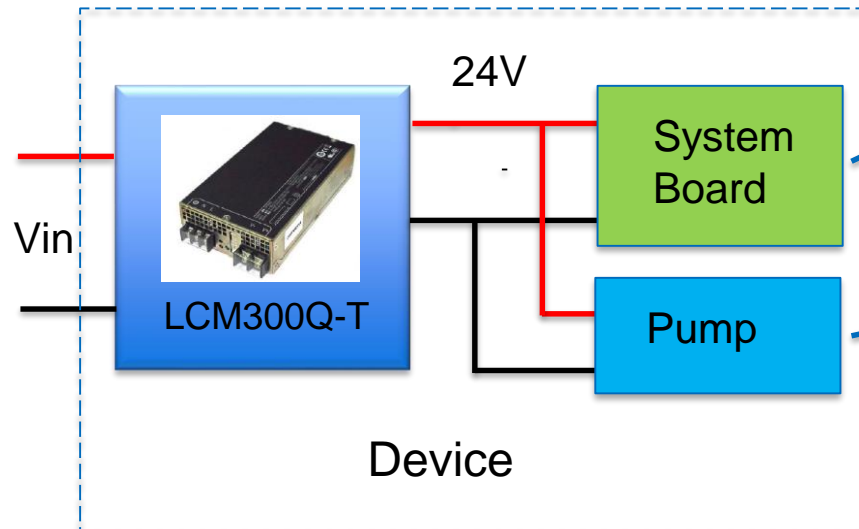




Respiratory Ventilation System

Respiratory Ventilation System

Recommendation solution 2





Medical LASER

Medical LASER

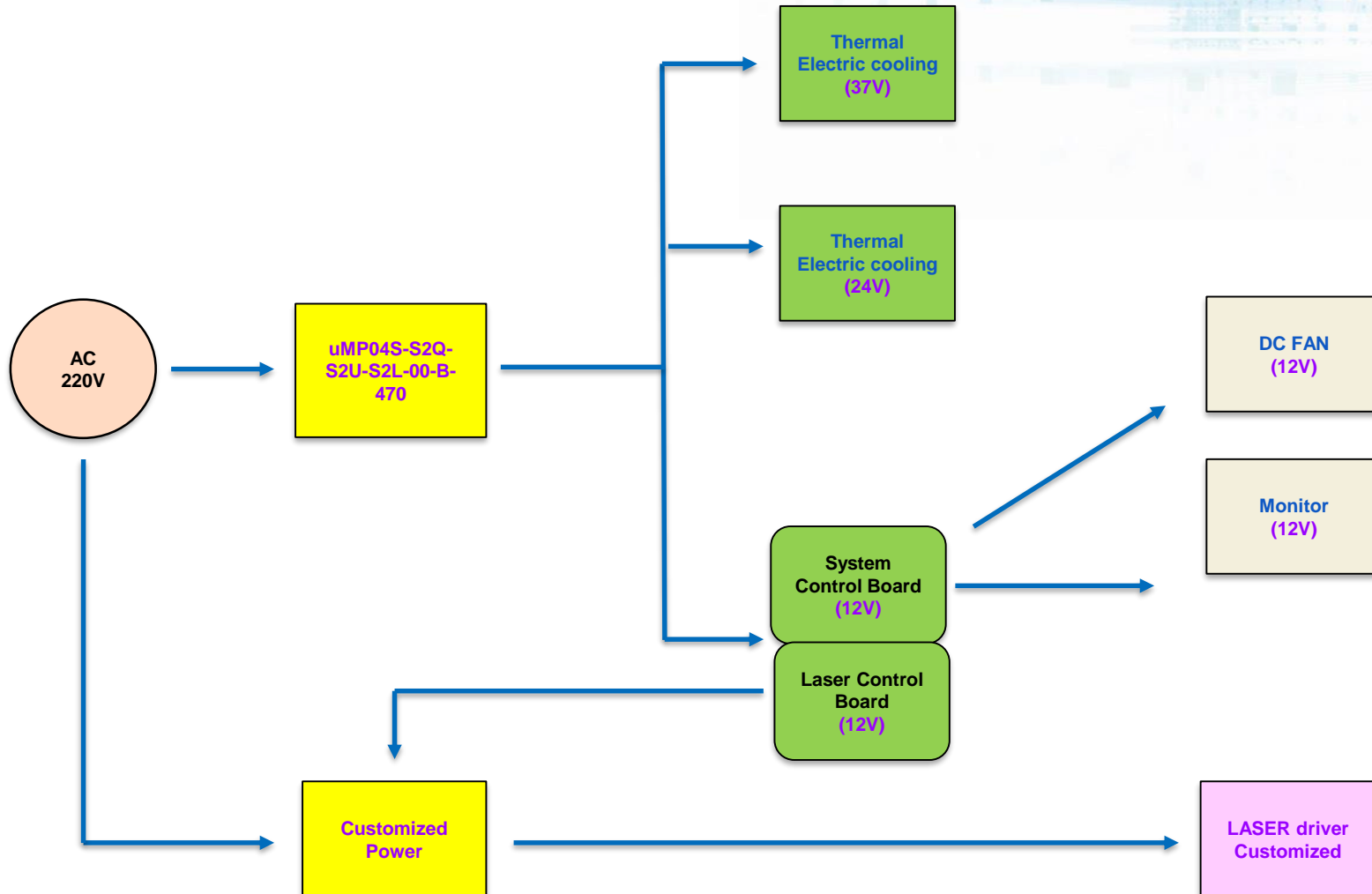
P/N	Spec				
	Power (W)	Vin	Vout	Leakage Current	CH
uMP04S-S2Q-S2U-S2L-00-B-470	600W	220Vac	24V, 10A 37V, 6.5A 12V, 4A (Dual)	<150uA	3ch



- Replacing several AC/DCs of competitors to reduce leakage current with uMP.

Medical LASER

* Power Tree





X-Ray Generator

X-Ray Generator

Designed uMP successfully to Mobile DR model..

Good relationship with customer, we got opportunity to replace competitor's PSU.

Mobile DR system have automated wheels that can move heavy system actively for user convenience.

User can move it with less power.

Your Smarter Choice for Mobile DR System



It begins with Advanced Technology

DRGEM's newly launched Mobile Digital Radiography system is developed high technology and experience through a decade of experience in conventional system.

With DRGEM's TOPAZ, you can make your work easier and more precise satisfaction in maneuverability and digital imaging process and speedy process.

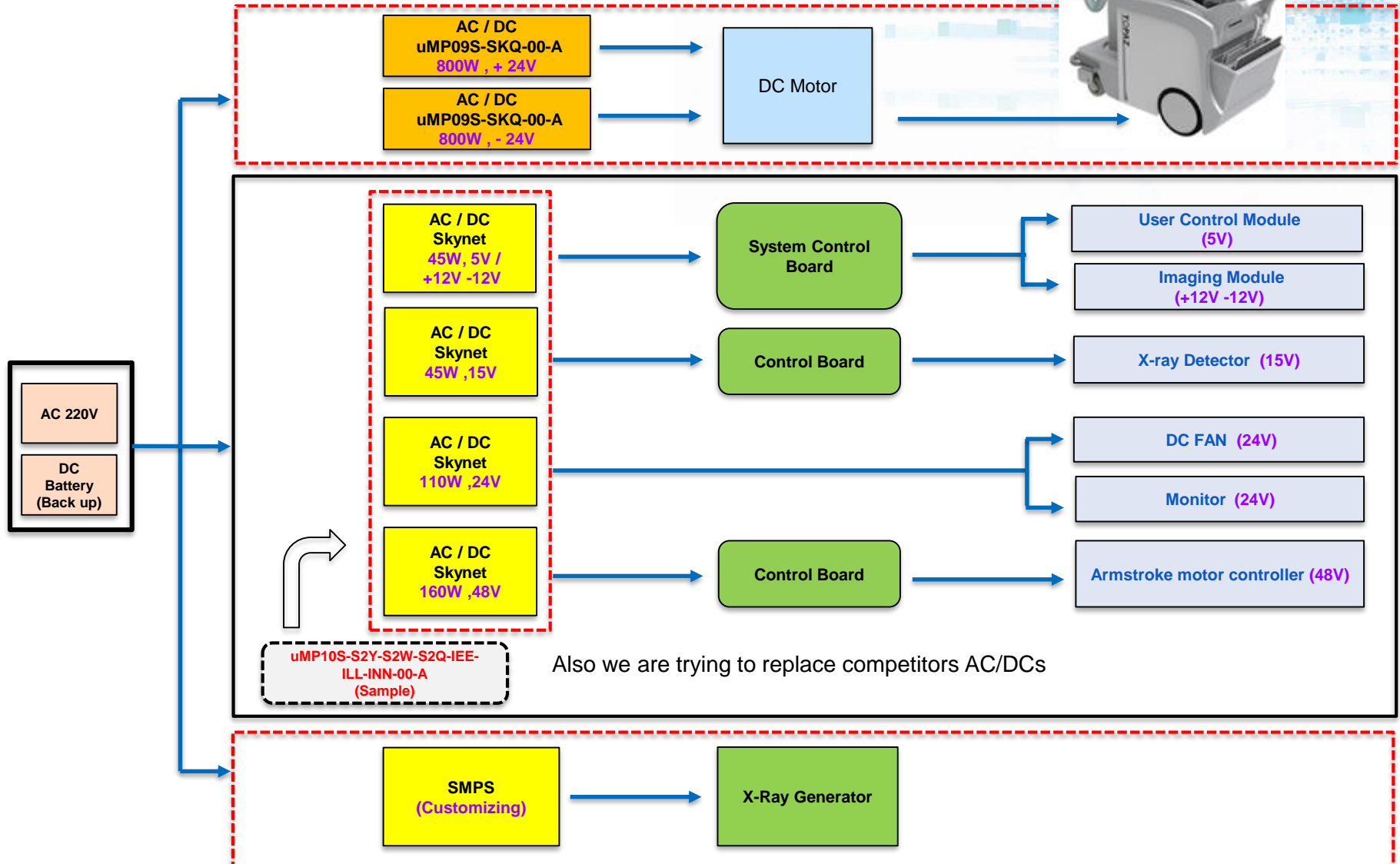
And it also provides user-friendly state of the art software to fit your need quality.

Options

- DAP(Dose Area Product) meter
- AEC(2 fields, Mobile ion chamber)
- Easy Detachable High Resolution Grid and Holder

X-Ray Generator

System Block Diagram





Digital Video Security Surveillance System

Digital Video Security Surveillance System

Why LGA80D?

- Input range: 7.5V- 14V [✓]
- O/p1 0.85Vdc@ > 20A [✓]
- O/p2: 1.2Vdc@ > 20A [✓]
- High power efficiency >85% [✓]
- Compact & miniature size dimension [✓]
- Full digitally controlled >> PMBus [✓]
- Ease of adjustable outputs through Rvtrim [✓]
- High reliability and cost efficient solutions and good tech support [✓]



DC-DC

LGA80-00DADJJ

Distributed DC for:-

- Multi-core processor
- Memory
- I/Os; logic control and etc



Plasma RF Generator

Plasma RF Generator

PTS is supplying RF generator for Plasma device.

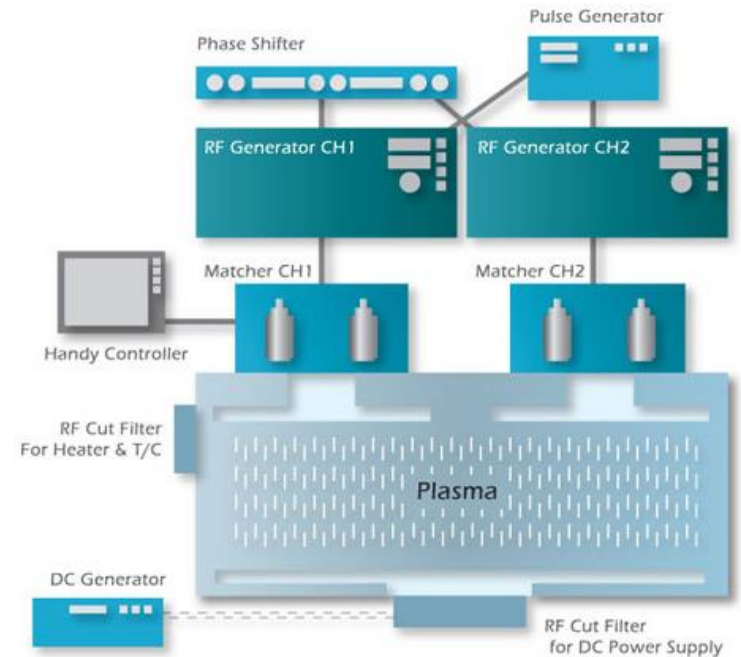


RF Generator의 가장 기본적인 사양으로
선택된 한 가지 주파수의 Power가 발생합니다.

LineUp

50kW			O	O							
30kW			O	O							
20kW			O	O							
10kW	O	O	O	O	O	O	O				
7.5kW	O	O	O	O	O	O	O				
5kW	O	O	O	O	O	O	O	O			
3kW	O	O	O	O	O	O	O	O	O		
2kW	O	O	O	O	O	O	O	O	O	O	O
1kW	O	O	O	O	O	O	O	O	O	O	O
500W	O	O	O	O	O	O	O	O	O	O	O
300W	O	O	O	O	O	O	O	O	O	O	O
Watt											
Hz	2MHz	4MHz	13.56MHz	27.12MHz	40.68MHz	60MHz	100MHz	200MHz	300MHz	500MHz	

Plasma RF system

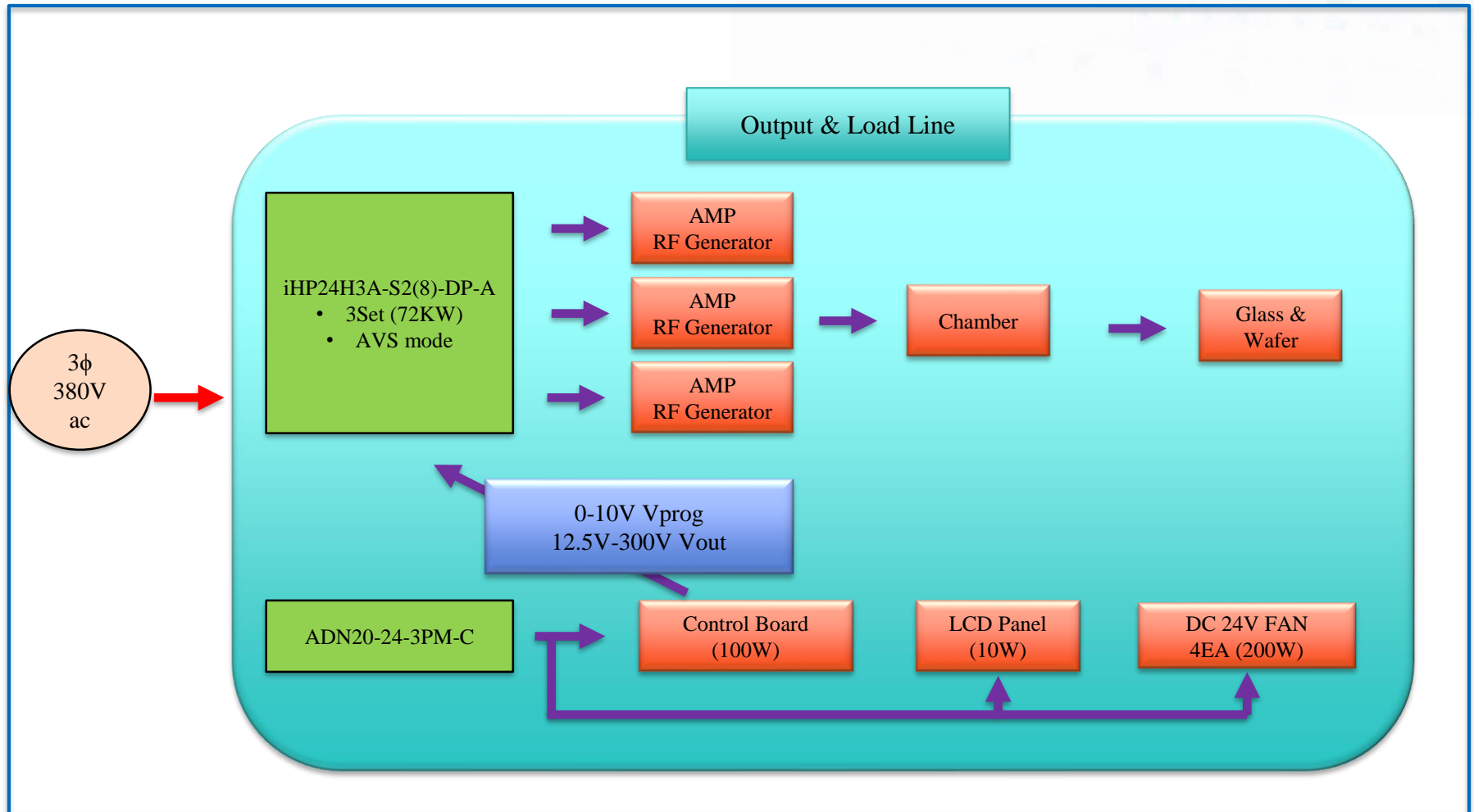


Generator
RF Generator
- Single Freq
- Double/Triple Freq
- Variable Freq

MF Generator
DC Generator

Plasma RF Generator

Plasma RF Generator is used for Semiconductor or LCD manufacturing..





Automation Process System

Automation Process System

Actual needs & adv:

- Input: 90-264Vac [✓]
- 3.3V/30A; 5V/30A; 12V/30A; 24V/15A; 48V/15A [✓]
- Efficiency >80% [✓]
- Solid & enhanced body structure [✓]
- PMBus/I2C control optional for future product enhancement [✓]
- Good & prompt support tech support [✓]



AC-DC

iVS1-3W0-2L0-2Q0-1D0-
1E0-00-xx
- 3.3/5/12/24/48V

Distributed DC for:-

- Logic control & monitoring
- IPC control system
- PLC legacy system
- Drivers card: Motors; conveyor
- etc

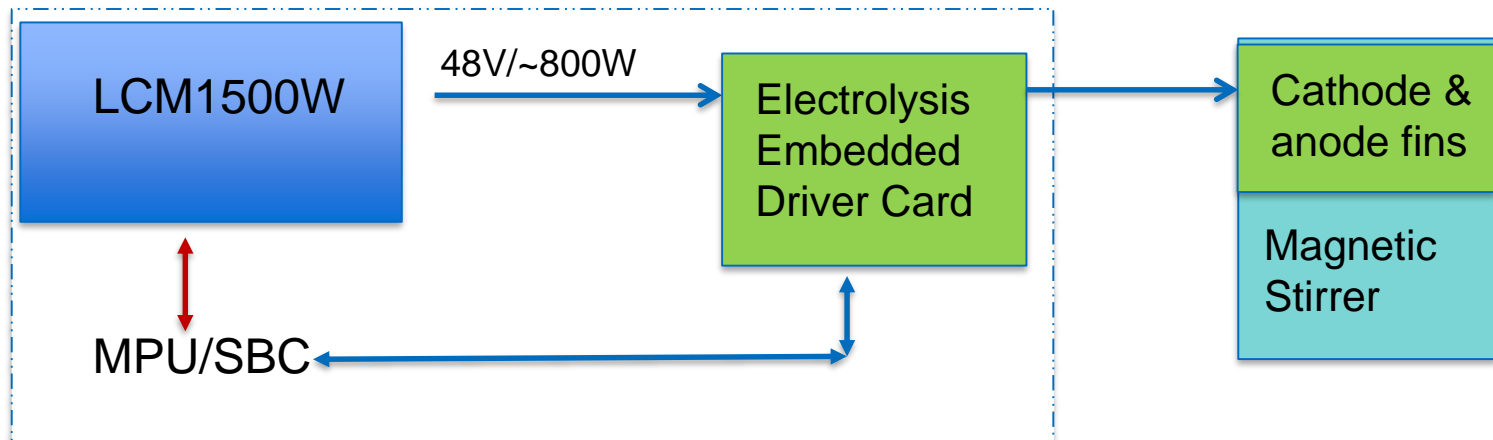


Industrial Wastewater Treatment System

Industrial Wastewater Treatment System

Why LCM1500W:

- Vout: 48V@ upto 1500W
- 90-264Vac
- CC optional model
- Efficiency >85% at full load
- Optional 5Vsb@2A
- Digital monitoring available
- Low cost all-in-one psu
- Reputable brand in power supply market





Hair Removal LASER

Hair Removal LASER

- Application: **DepiLight (Diode Hair Removal Laser)**
- By using 808nm wavelength Laser.

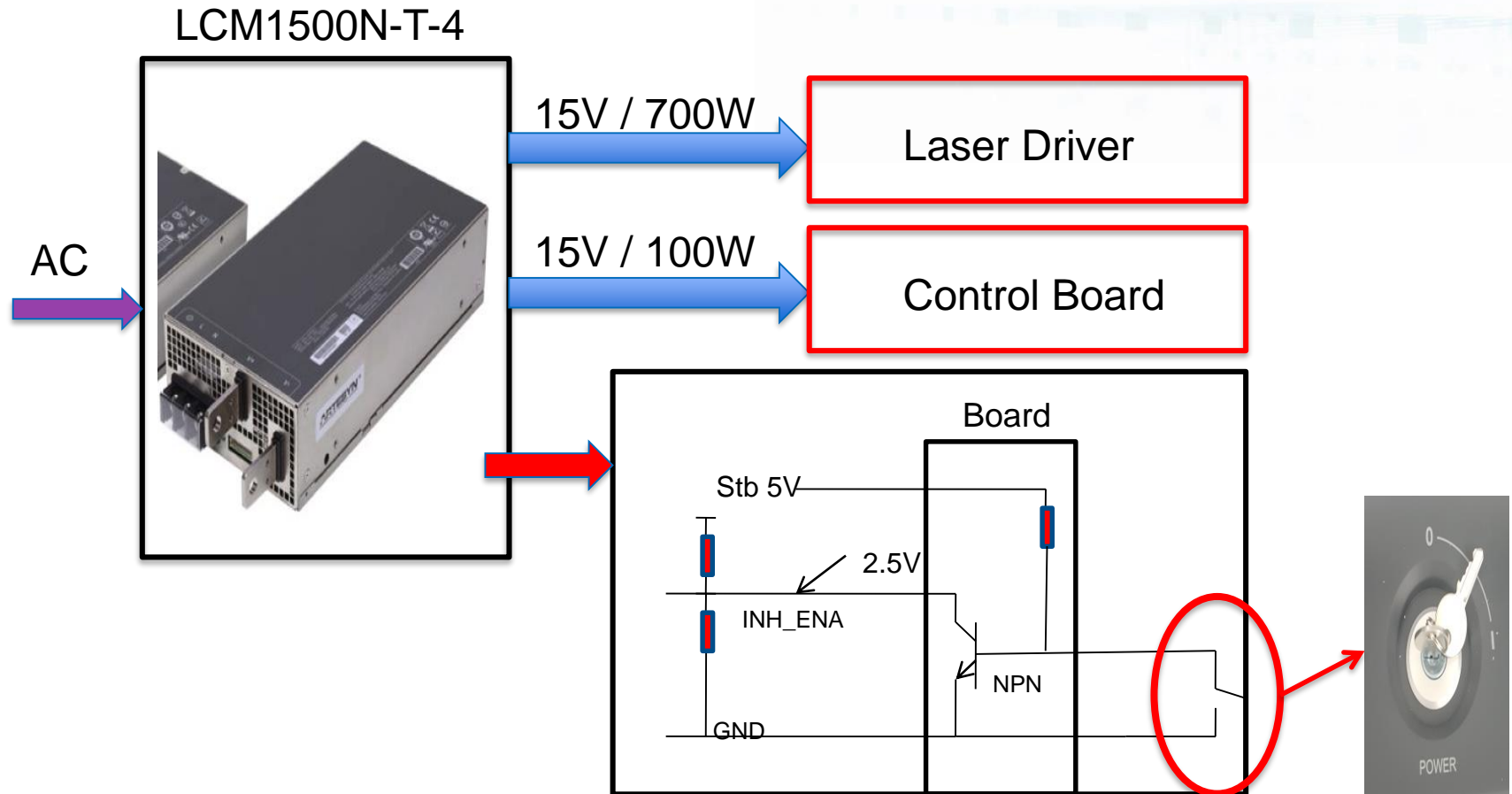
<Design Key Point>

- Global Enable with using external circuit
- LCM Series don't have a optional function of Global Enable

LCM Series Option Code	Function
LCMxxxx-T	No Option
LCMxxxx-T-1	Conformal Coat
LCMxxxx-T-1	Reverse Airflow
LCMxxxx-T-4	Standby 5V
LCMxxxx-T-5	Conformal Coat + Standby 5V
LCMxxxx-T-8	Constant Current
LCMxxxx-T-B	Reverse Airflow + Constant Current
LCMxxxx-T-D	Standby 5V + Constant Current



Hair Removal LASER





Ozone Generator

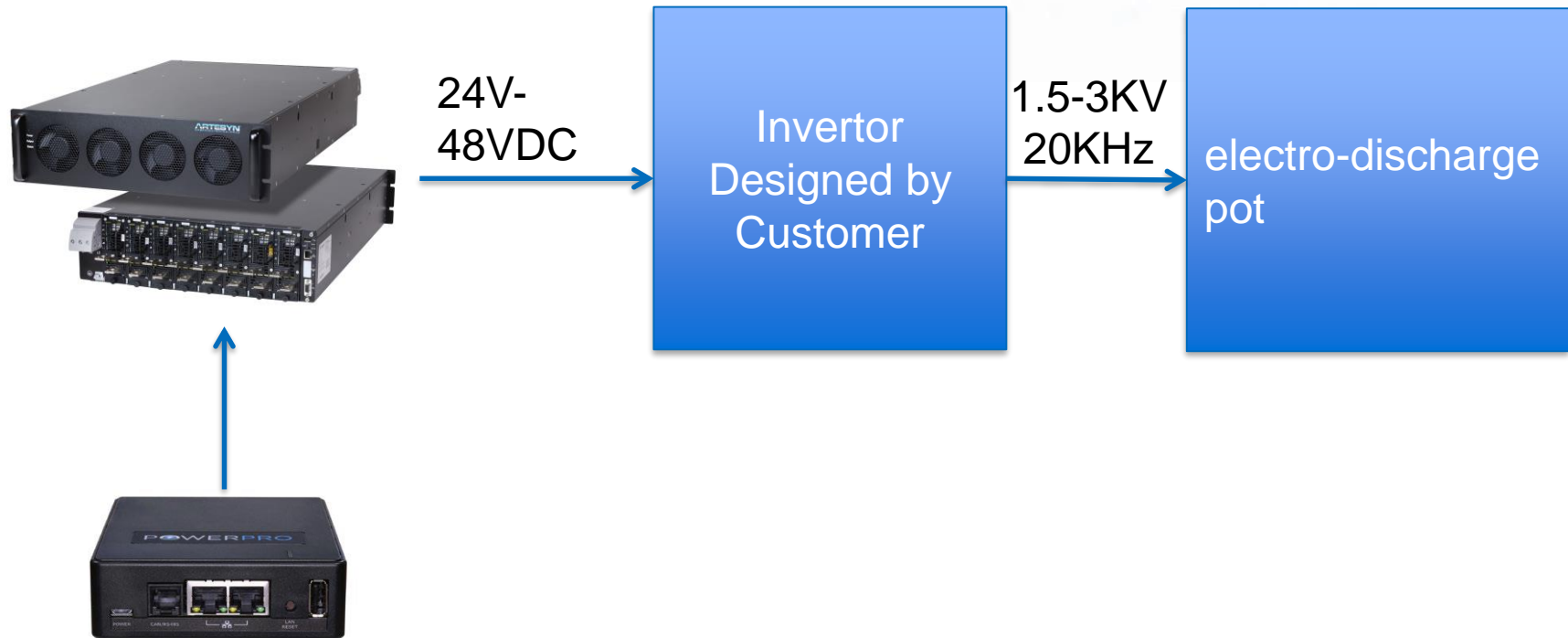
Ozone Generator

Customer equipment



Ozone Generator

Power Diagram



Cloud monitor in the future



GSM Base Station Controller

GSM Base Station Controller

Base Station controller supports all-IP architecture GSM offerings.

Designed specifically for low power consumption base stations.

1. AC input: DC output voltage 48V typ @ 5A or more. ~250Watts or higher
2. Conduction cooled, Chassis mounted type (preferred) or Baseplate PCB mounted
3. MIL-STD-810F and MIL-STD-461E compliance (as much as possible)
4. -40 to 85 degC operating temp range
5. IP65 if it is chassis mounted type.
6. High reliability and rugged for use in harsh outdoor environment
7. Protections, EMI Filtering integrated.

Artesyn Proposal LCC250-48U-4P



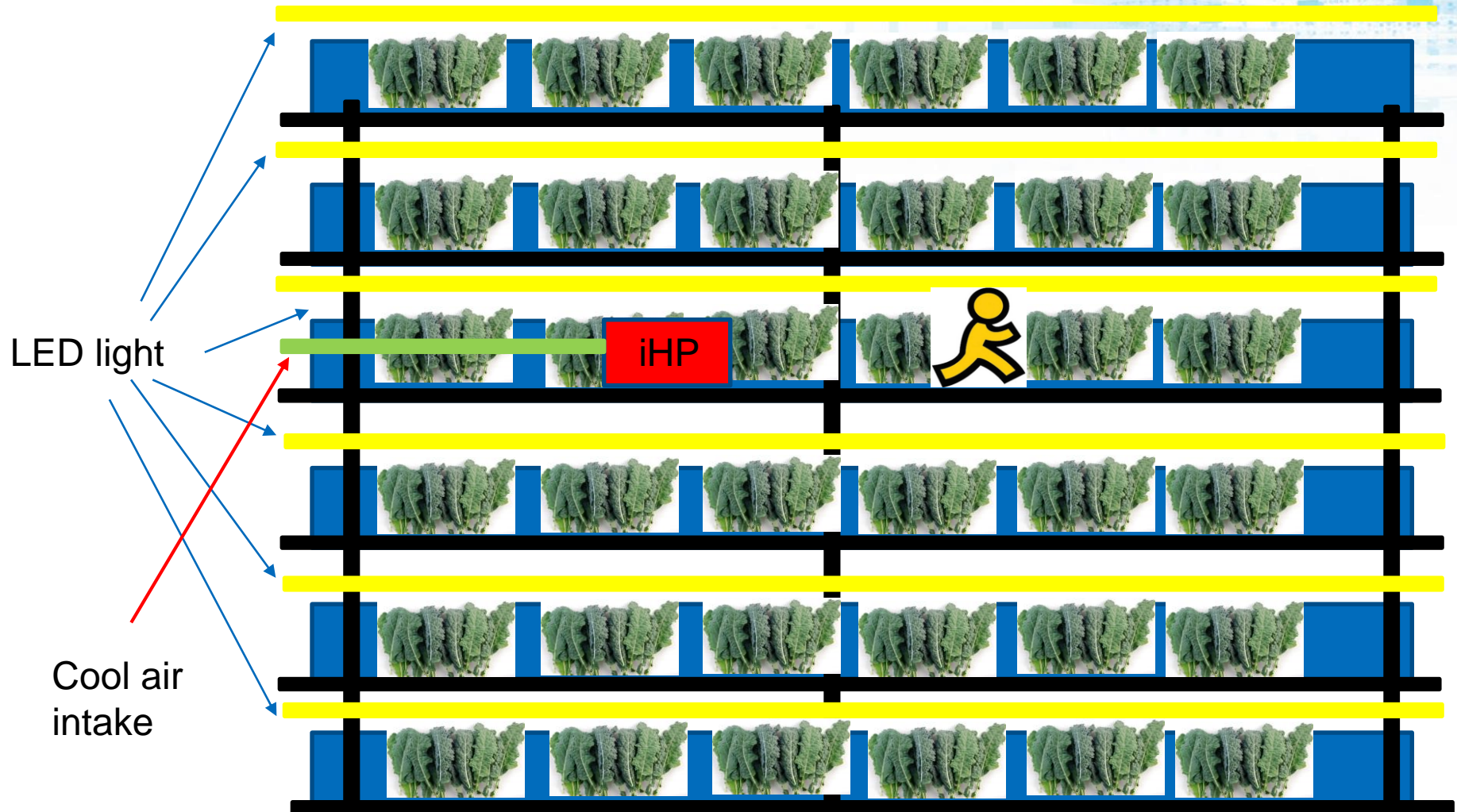


Horticulture LED Drive

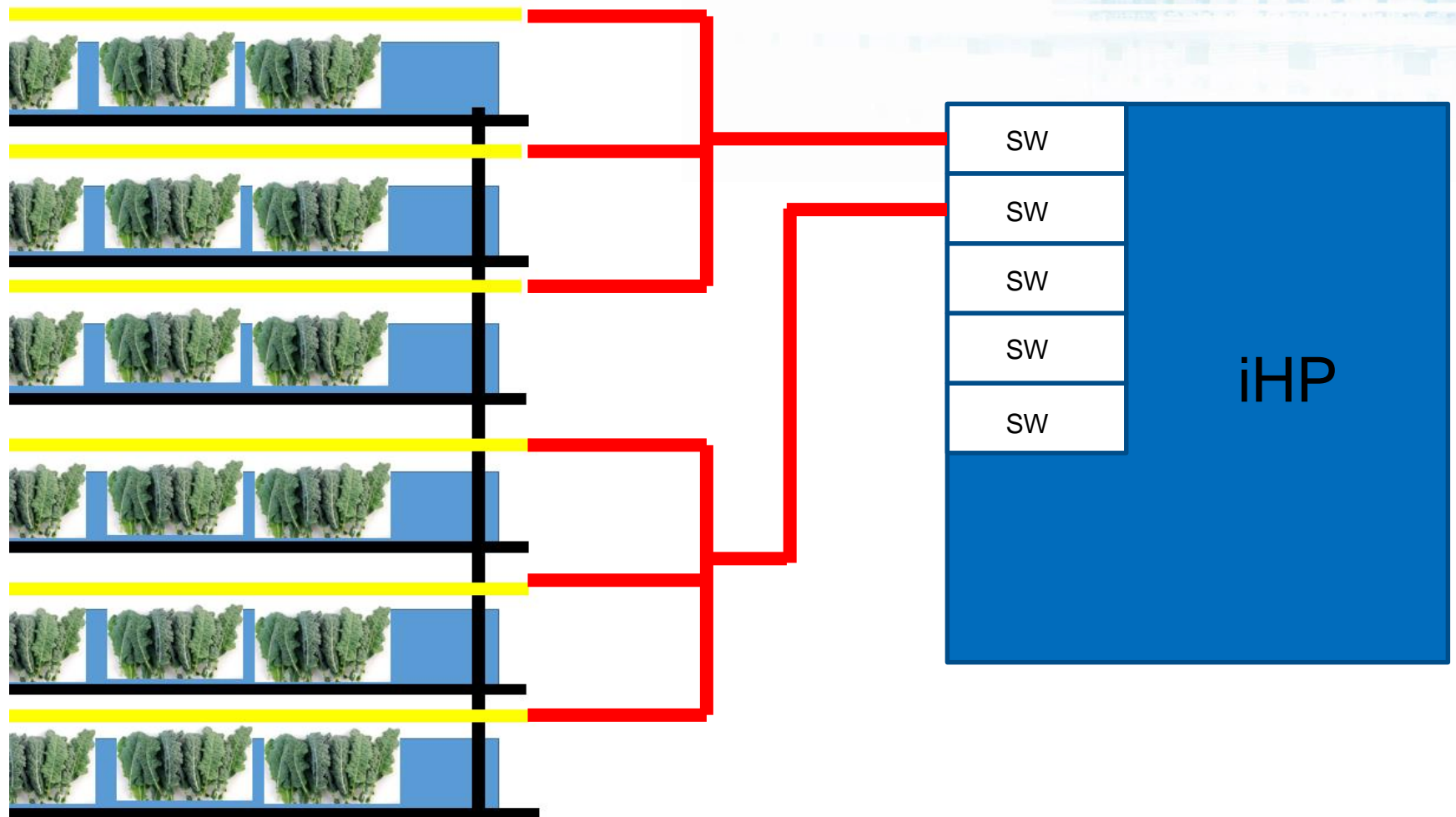
Horticulture LED Drive



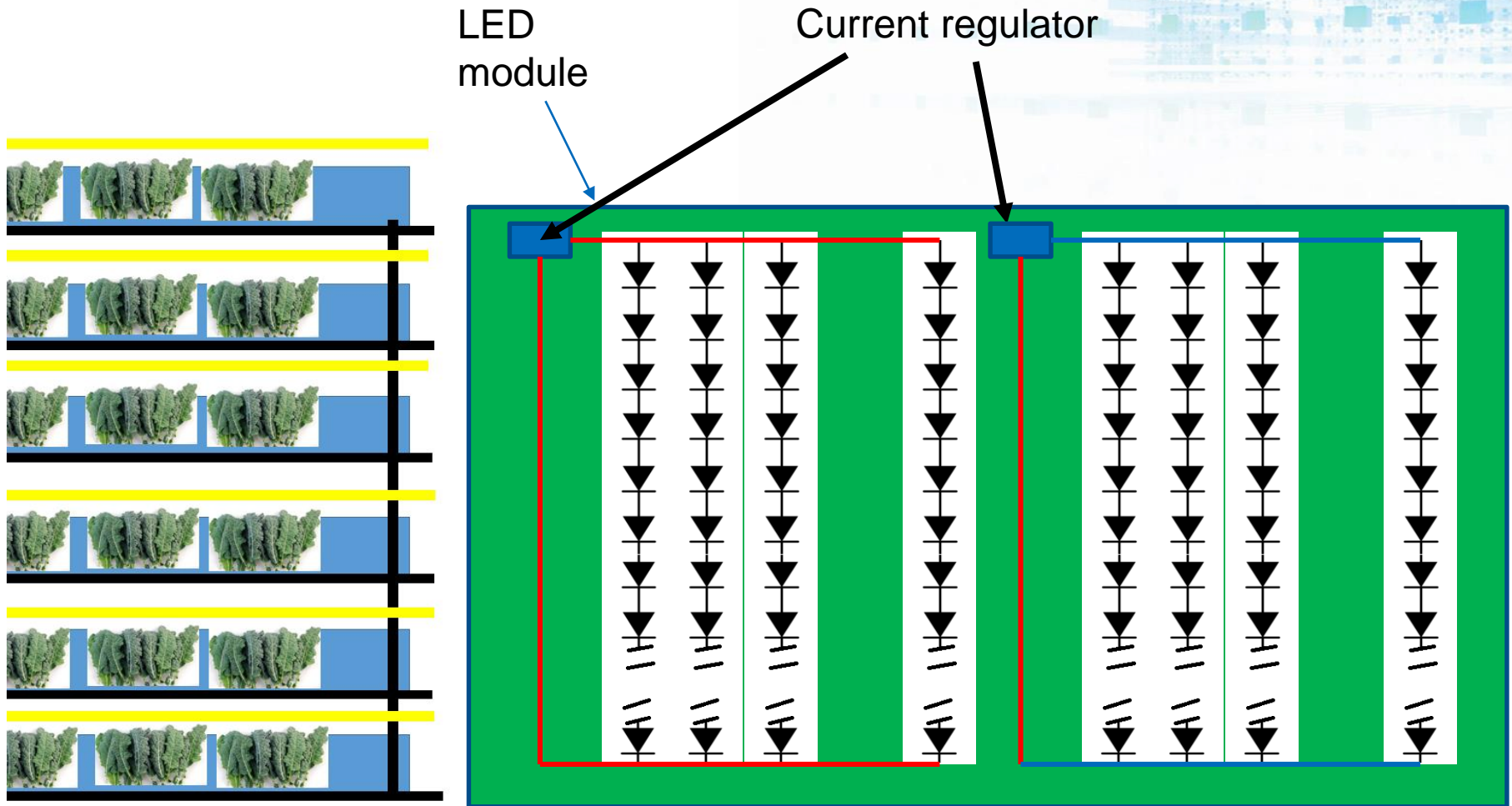
Horticulture LED Drive



Horticulture LED Drive



Horticulture LED Drive





Light Rail Information System

Light Rail Information System

- Dc/Dc spec vs target as follow:-
- AVQ100-24S05B-4L baseplate option
- Vin:18-36Vdc
- Vout: 5V@20A
- Miniature size with brick standard >> Quart brick
- -40C to 85C
- Remote on/off
- High MTBF is preferred >> ~2.5 Mhours
- Better power margin & high efficiency >85%
- Better costing



DC-DC

AVQ100-24S05B-4L/
AEE10A18-L/LHS

Distributed DC for:-

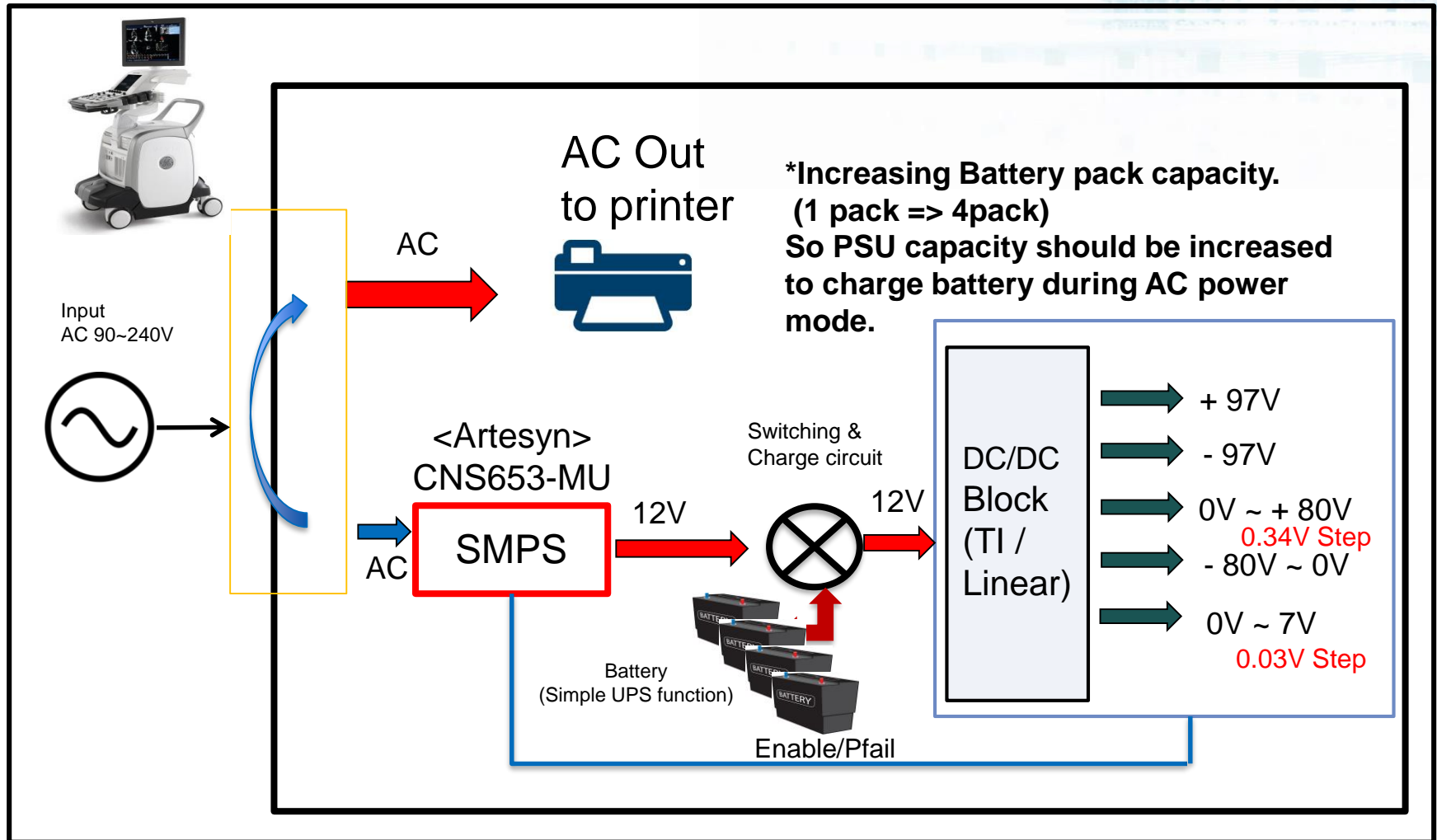
- ASIC processor
- Sub-MCU module
- Interface module
- etc



Medical Ultrasound

Medical Ultrasound

■ Power Structure : CNS653-MU

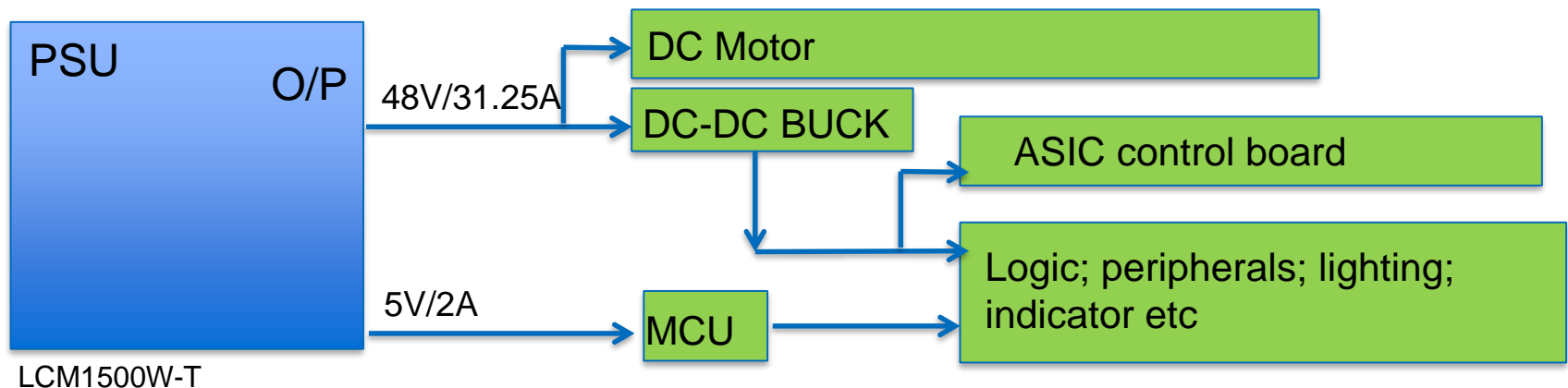




Mobile Medical Image Scanner

Mobile Medical Image Scanner

- Why LCM1500W-T?:
- Vout: 48V/1500W max
- Vsb 5V@2A
- Efficiency typ. ~89%
- Reputable power branding
- Cost efficient PSU
- Compact profile with enclosure
- Conformal coating option

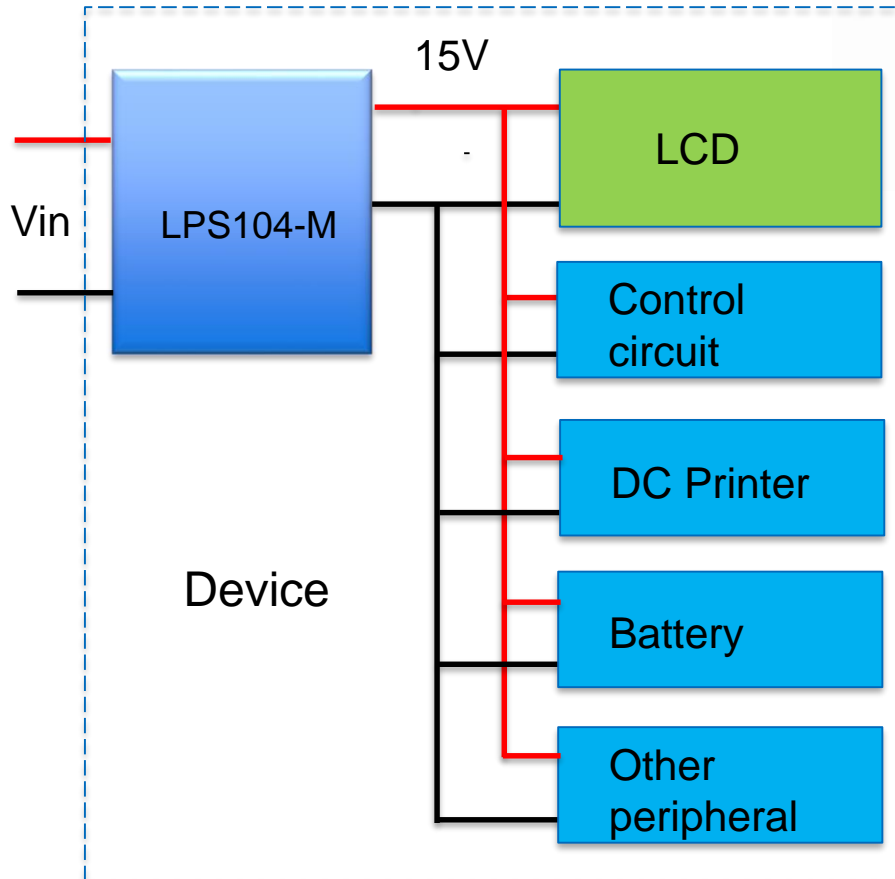




Cardiograph Device

Cardiograph Device

Recommendation solution



Cardiograph device





Mobile Phone Battery Tester

Mobile Phone Battery Tester

Battery testing device.

Battery Cycler

TPMS
TPS-E-062A

★FEATURES

- Max 300 channels
- Support
 - Series 1cell Li-on Battery
- Easy and powerful management.
Data management. (Save Excel file)
- Remote Support for technical problems.

Specification

Charge	Voltage	Max 4.5V
	Current	Max 6.0A
Discharge	Current	Max 6.0A
Cycle Count	Step	Max 999
	Total	Max 9999
IR Measurement		Max 500mΩ
Interface		RS-232C
Size (W H D, mm)	60CH	600 x 1840 x 750
	100CH	600 x 1840 x 750
Weight	60CH	kg
	100CH	kg
Power	AC 380V / 60Hz	



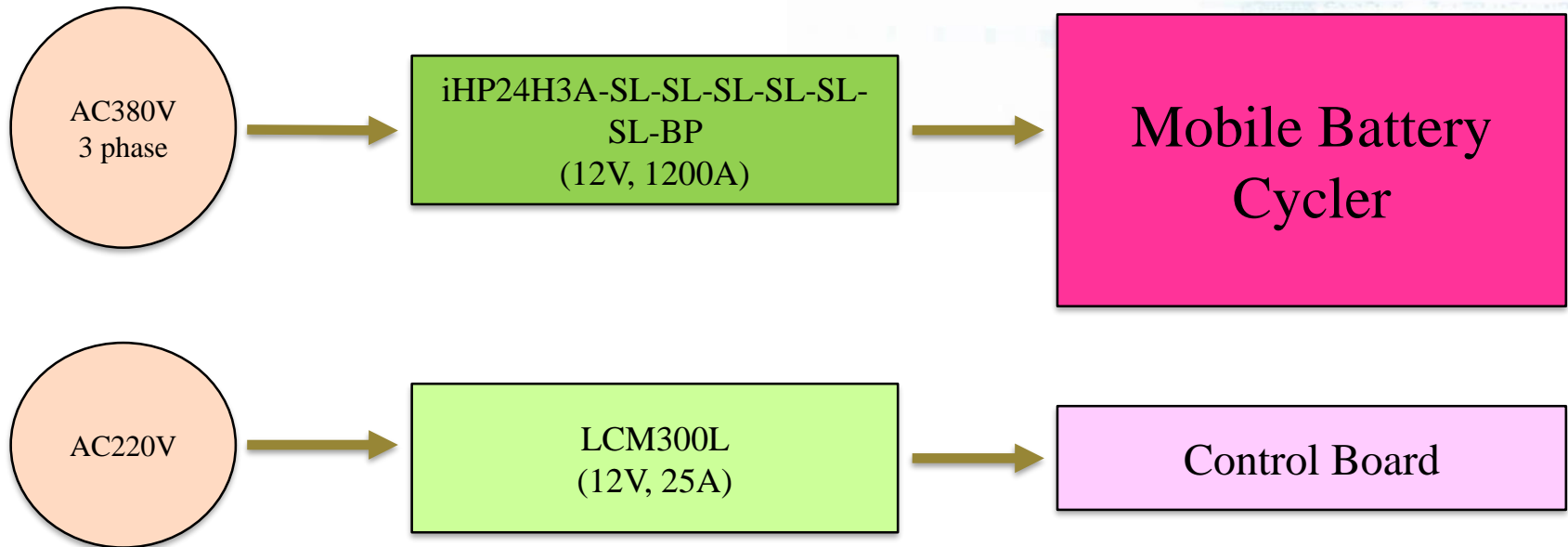
▲ 60 channels (PC include)



With iHP



Mobile Phone Battery Tester



- Customer have been using 1500W PSU.
- iHP can provide simple mechanical structure and easy wiring from 3 phase input.

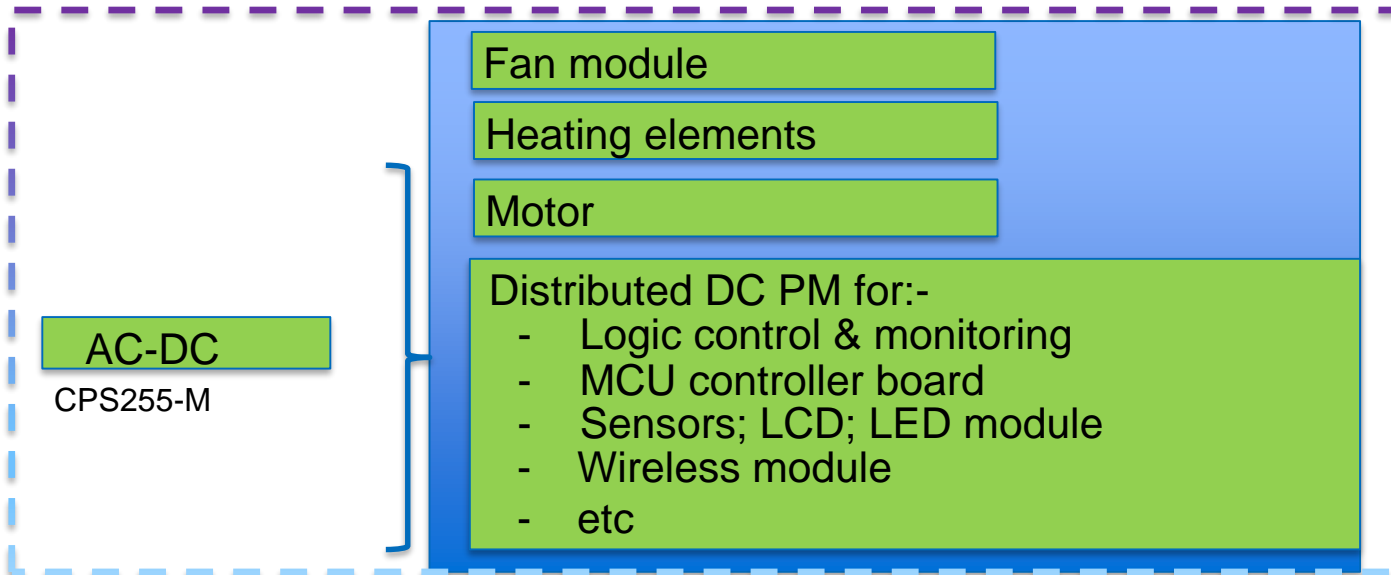


Automatic Bread Maker

Automatic Bread Maker

Actual needs & adv vs [target need]:

- Input: 90-264Vac [✓]
- Pout: 24V@[155W] 250W [✓]
- On-board aux 12V@0.5A [✓]
- Efficiency >85% [✓]
- PMBus/I2C control capable for reporting [✓]
- Compact size dimension with <1U [✓]
- Solid & enhanced body structure with ready LPX100 offered [✓]
- Good & prompt support tech support [✓]

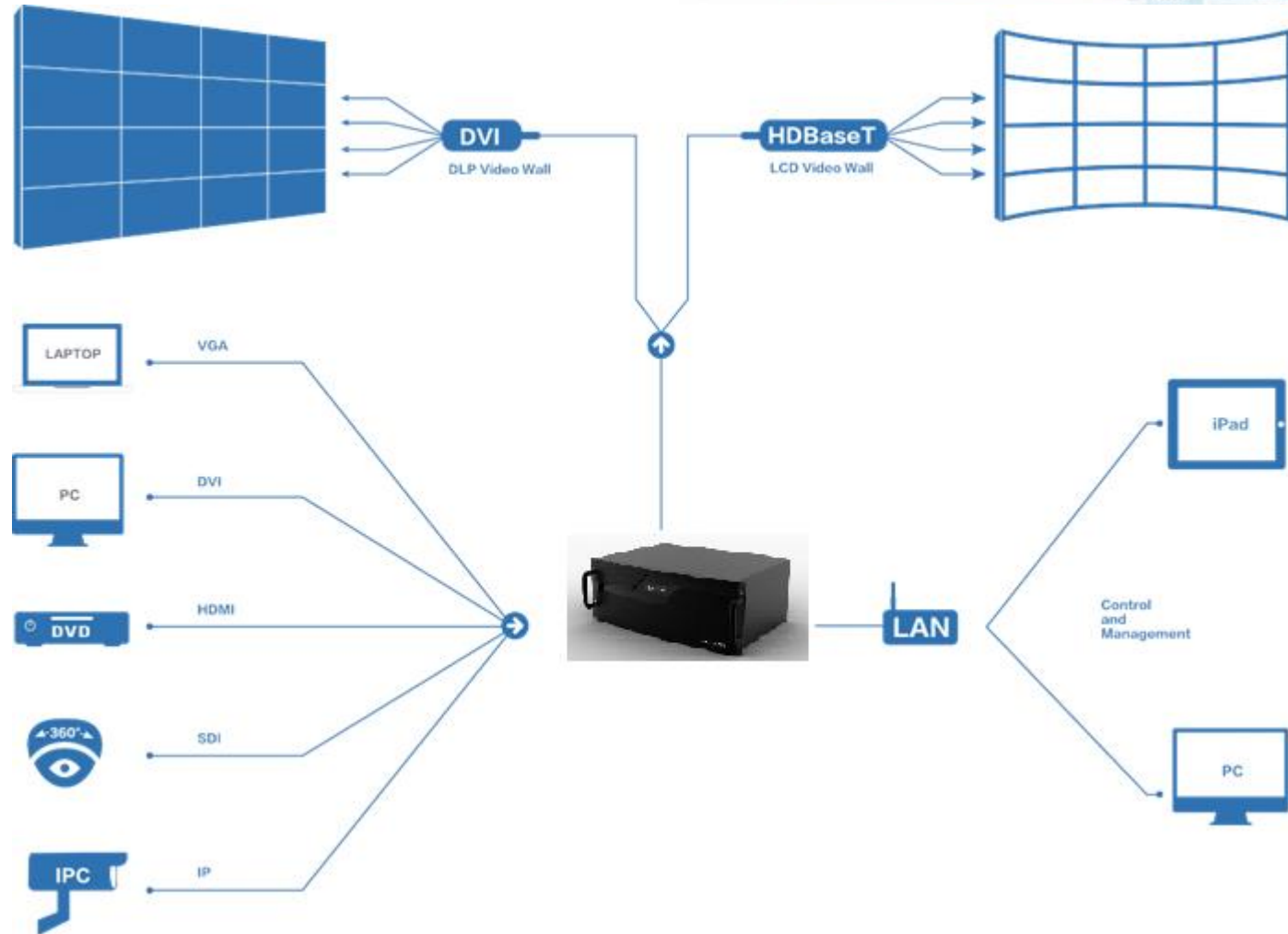




Video Wall Processor

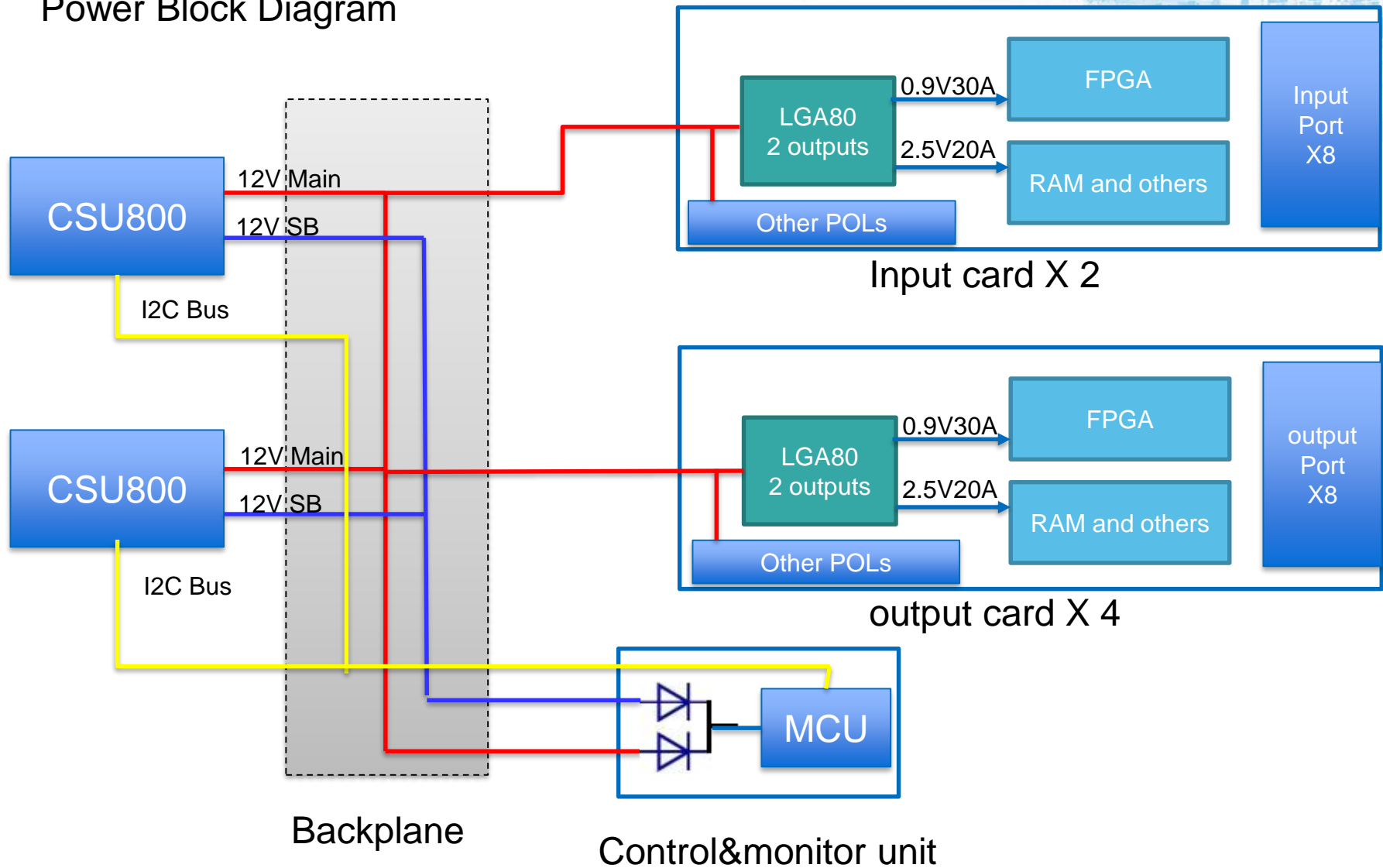
Video Wall Processor

The customer's system



Video Wall Processor

Power Block Diagram

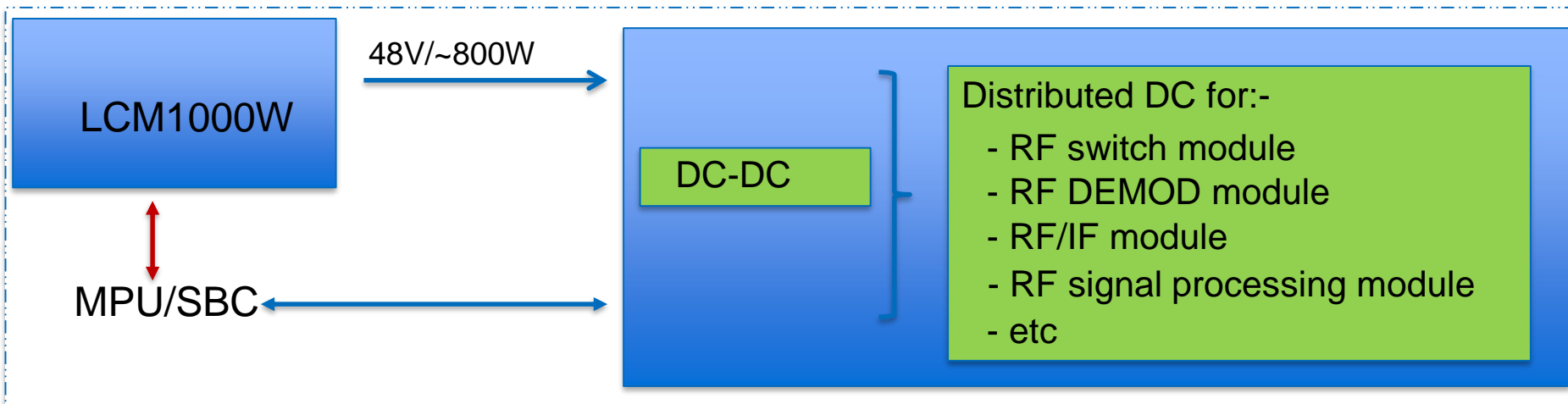




Industrial Radio Communication System

Industrial Radio Communication System

- Why LCM1000W:-
- Vout: 48V@ upto 1000W
- 90-264Vac
- Efficiency >85% at full load
- Optional 5Vsb@2A
- Digital monitoring available
- Low cost all-in-one psu
- Reputable brand in power supply market





Multi-Viewer System

Multi-viewer system



Solution Structure

Project name - Multi-viewer system

Application summary:

-This project is a 1U height standalone multi-viewer system. supports 8ch digital or analog video inputs and 1 DVI/HDMI output. It is a cost-effective display solution for broadcasting applications.

Real needs:

- 12V/10A, 1+1 redundancy for high reliability
- Remote on/off and 5V standby output
- Current share and hot-swap
- AC input and DC output on same side, request an AC power switch

Solution summary:

- Using TLP150R-96S12FJ with a fan to create 12V/10A main output, current share, 5V standby and remote on/off

Multi-viewer system

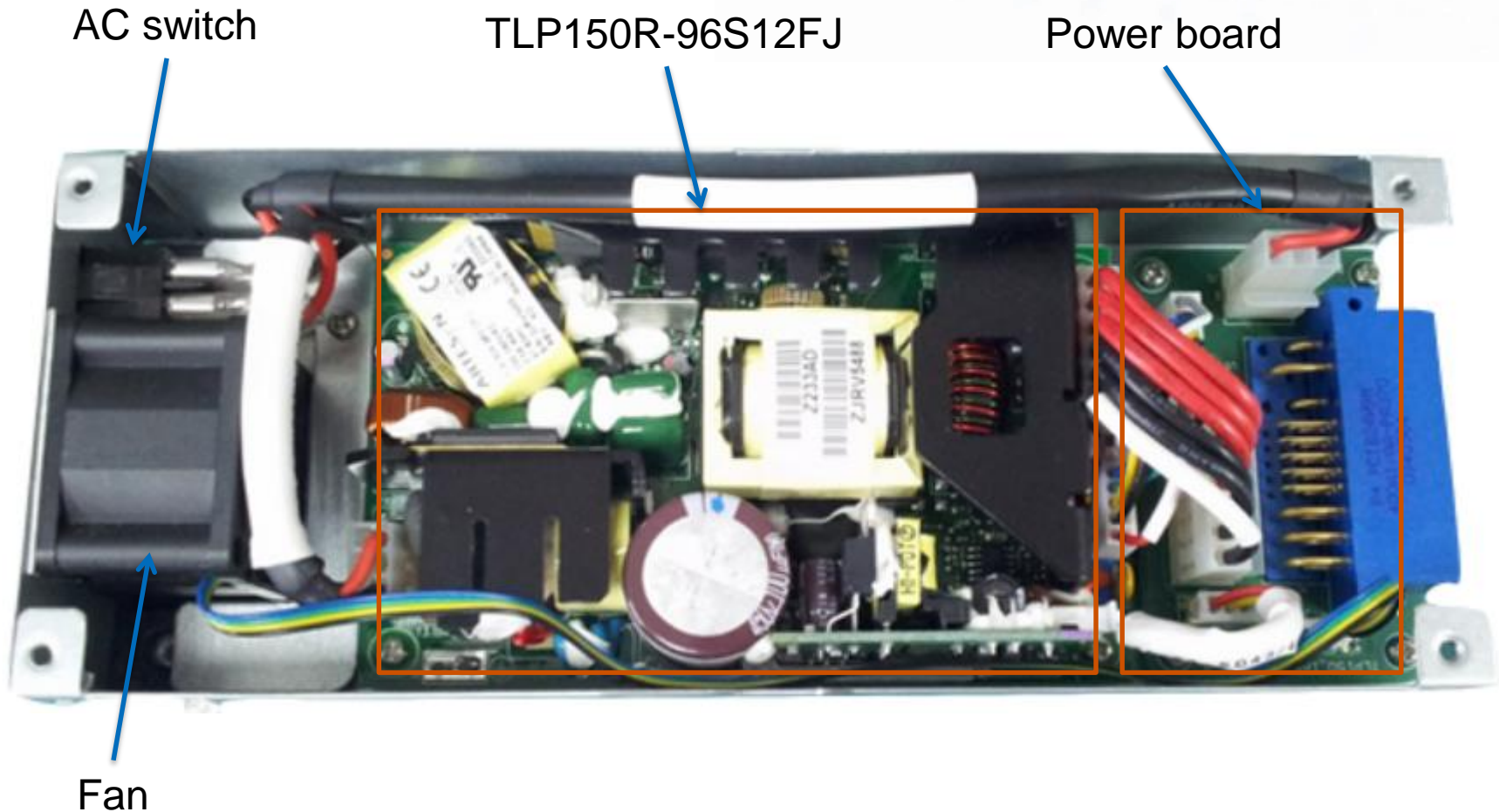
The customer's system



Multi-viewer system

The Customer makes a power board to route AC and DC on same side and meet redundancy and hot swap

Customer also makes a cover case to put PSU, power board and fan into it. meet hot-swap.



Multi-viewer system

The Customer makes a power board to route AC and DC on same side and meet redundancy and hot swap

Customer also makes a cover case to put PSU, power board and fan into it. meet hot-swap.





LASER Cutting Machine

LASER Cutting Machine

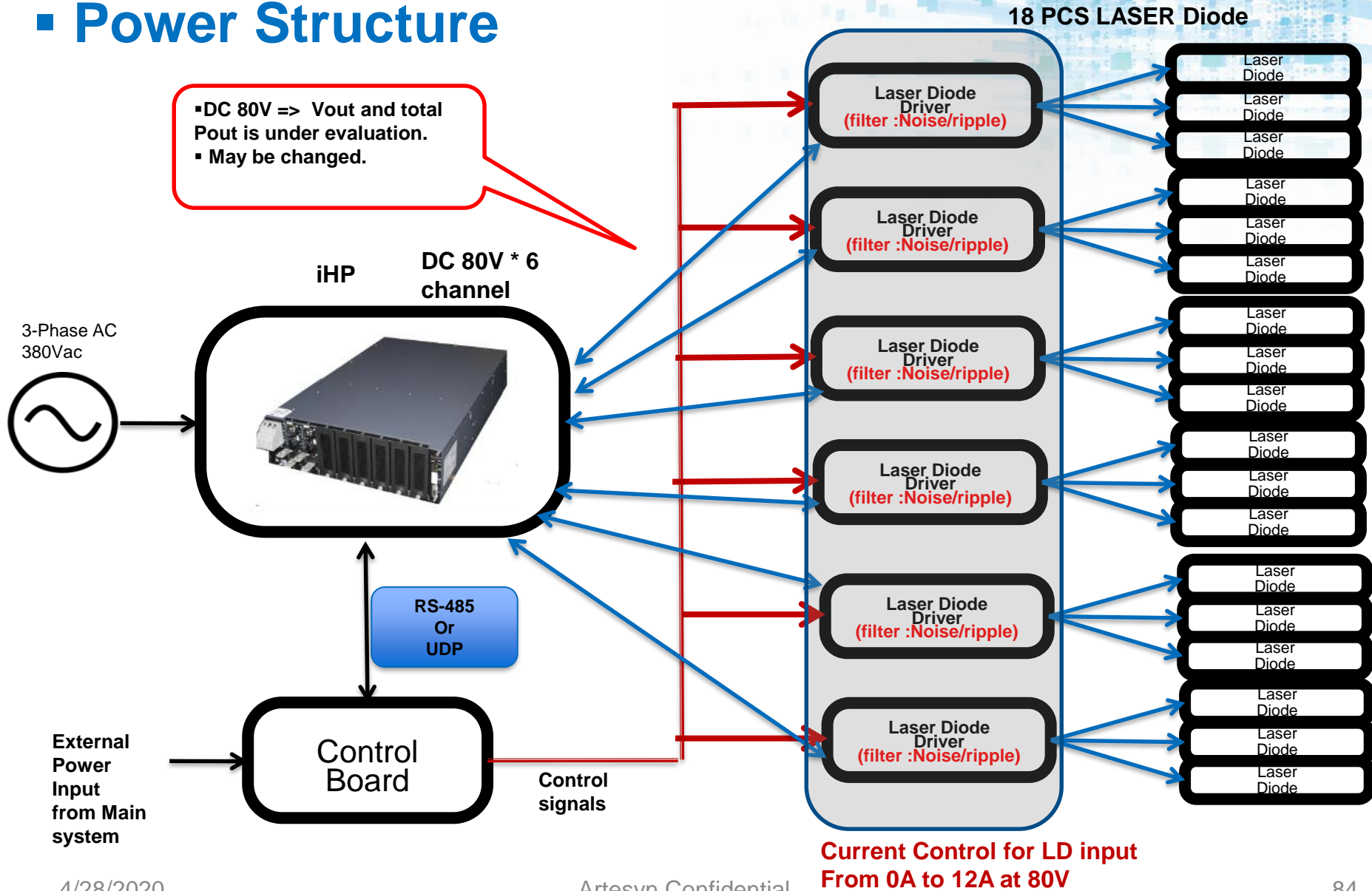
- Korea No1 LASER company
- Product: LASER marking, cutting, drilling, Welding, Bonding, Soldering
- At first, We visited this customer for LCM3000 promotion.
- They are using Meanwell 3KW PSU mainly.
- Meanwell 3KW PSU is dominating Korea Market at big Power applications.
- But LCM3000 Development is pending now.
- So we introduced iHP.
- They wanted to evaluate iHP.

Why iHP?

- 3 Phase balanced. iHP could be connected to 3 Phase 380V directly.
- No need to connect PSU by series to make 80V.
- PSU monitoring (Digital PSU).
- Rack type PSU (Simple mechanical structure).
- Easy Vout trimming.
- Flexibility for variable Power demand.

LASER Cutting Machine

■ Power Structure



The background is a dark blue field filled with numerous small, light blue squares and lines. These elements are arranged in a way that creates a sense of depth and movement, with some squares appearing to float or move towards the viewer. The overall effect is a high-tech, digital aesthetic.

ARTESYN[™]
EMBEDDED TECHNOLOGIES

MRI

MRI



Solution Structure

Project name - MRI

Application summary:

- Power supply will be used for magnetic amplifier in MRI equipment, this project requires 750VDC output

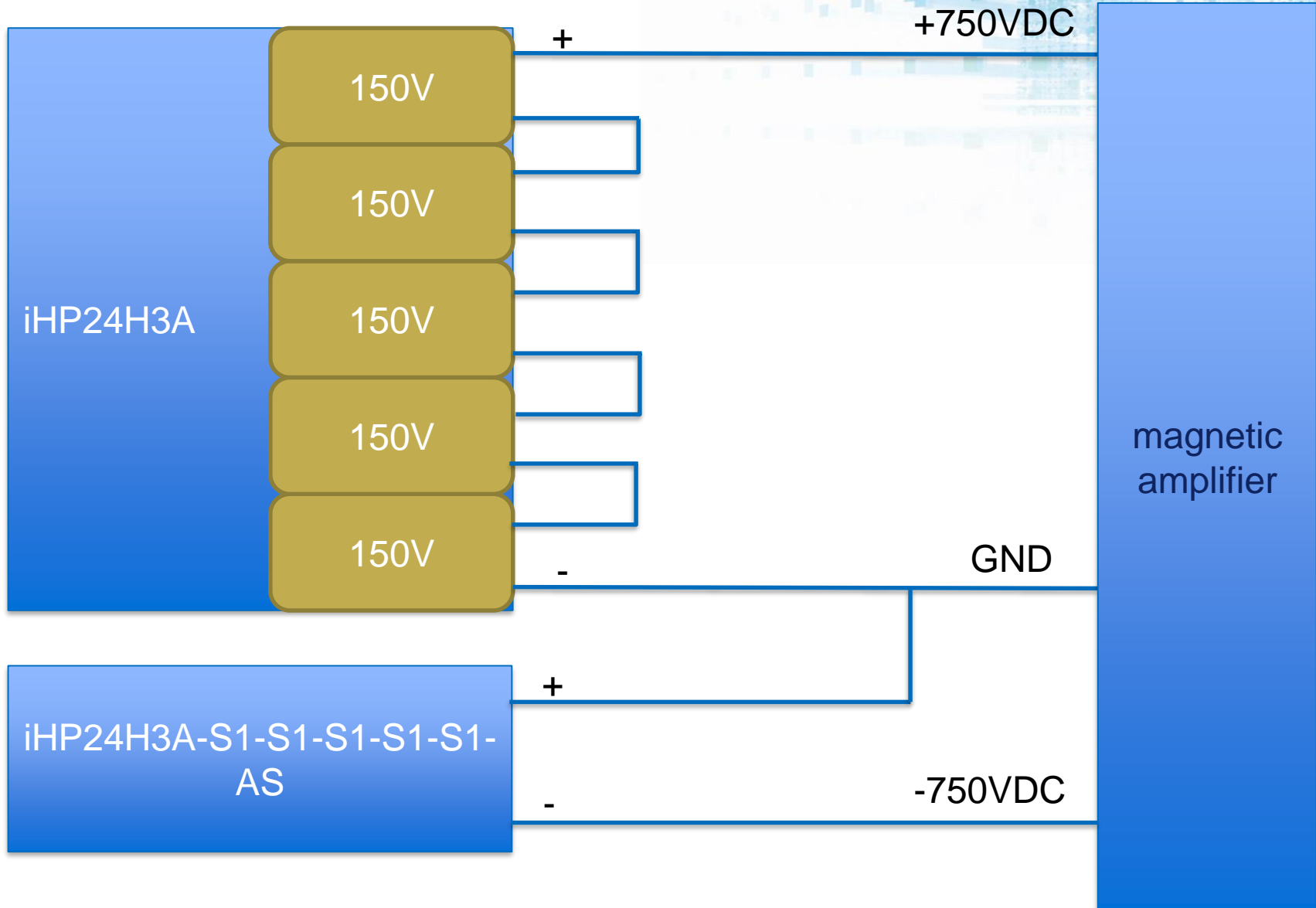
Real needs:

- +/-750V output, power is 10KW and peak power is 15KW
- 3 phase 380V input
- output voltage can be adjusted by CANbus or RS485

Solution summary:

- using iHP24H3A-S1-S1-S1-S1-S1-AS to create 750V 15KW output
- Adjust every module output to 150V
- CANBUS and RS485 communication is available now

MRI





Event Master Processor

Event Master Processor



Solution Structure

Project name - Full-sized Event Master processor

Application summary:

-Raising the bar for live screen management, the presentation system provides superior image quality, exceptional input and output density, great expandability and durability.

Real needs:

- 12V/800W output
- 90 ~ 264Vac input
- 1+1 Redundant Application
- High reliability
- Low cost

Solution summary:

- DS800SL-3

Event Master Processor

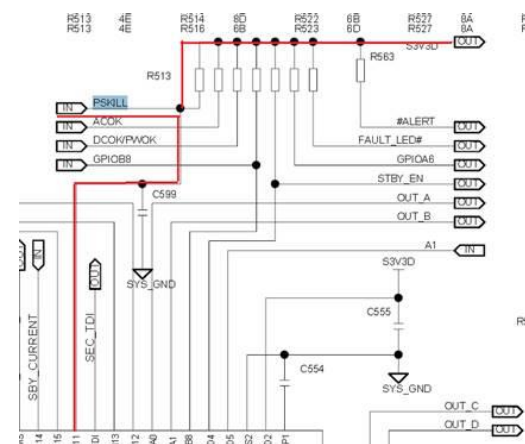
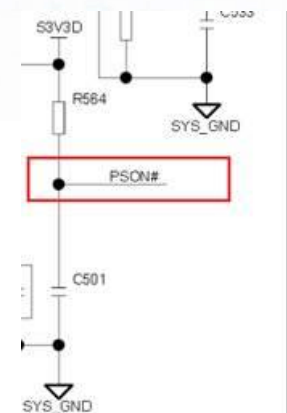
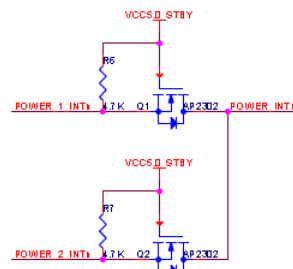
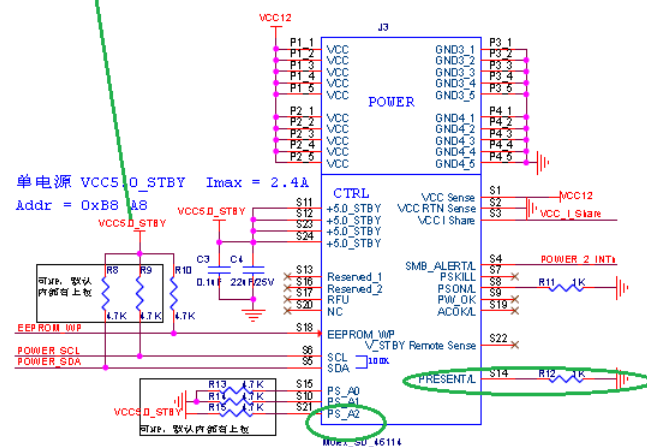
The product of Customer's competitor - - - BARCO



Customer has found that their competitor were using our product **DS760SL** and consulted with us. Then we recommend our DS800SL which has higher Efficiency and power, also lower cost.

We also invited customer to our Xi'an LAB and done some tests including efficiency, hot swap, current share, etc. to show the reliability of our power supply.

We also provide some suggestions to help customer build their PCB system board and re-calculated the total power together.





Stencil Printing Machine for SMT PCBA

Stencil Printing Machine for SMT PCBA

- PSU UMP10T-S2Q-S2Q-S2G-S2L-S2L-10-B spec capability & adv as follow:-
- Vin: 85-264Vac [v]
- 5.5V@ upto 32A [v]
- 12V@ upto 20A [v]
- 12.2V@ upto 19.5A [v]
- 24.3V@ upto 19.5A [v]
- Cost efficient PSU [v]
- High efficiency psu >80% [v]
- Better power margin [v]
- Good branding history [v]



AC-DC

UMP10T-S2Q-S2Q-S2G-S2L-S2L-10-B

Distributed DC-DC for:-

- IPC controllers
- Chemical dispensing module
- Vision inspection module
- DC Motor module
- etc



Ethernet Switch

Ethernet Switch

- Customer is specialized in Internet and Network device and technology.

1.25Gbps SFP(G20KMSCD-500N)



Hardware Feature

- Dual data-rate of 1.25Gbps 1.063Gbps operation
- CWDM DFB Wavelength laser and APD photodetector transmission
- 1310nm FP laser and PIN photodetector for 20km transmission
- Compliant with SFP MSA and SFF-8472 with duplex LC receptacle
- Digital Diagnostic Monitoring
- +3.3V sing power supply
- Operating case temperature
 - standard : 0 to +70°C
 - Extended : -20 to +85°C
 - Industrial : -40 to +85°C

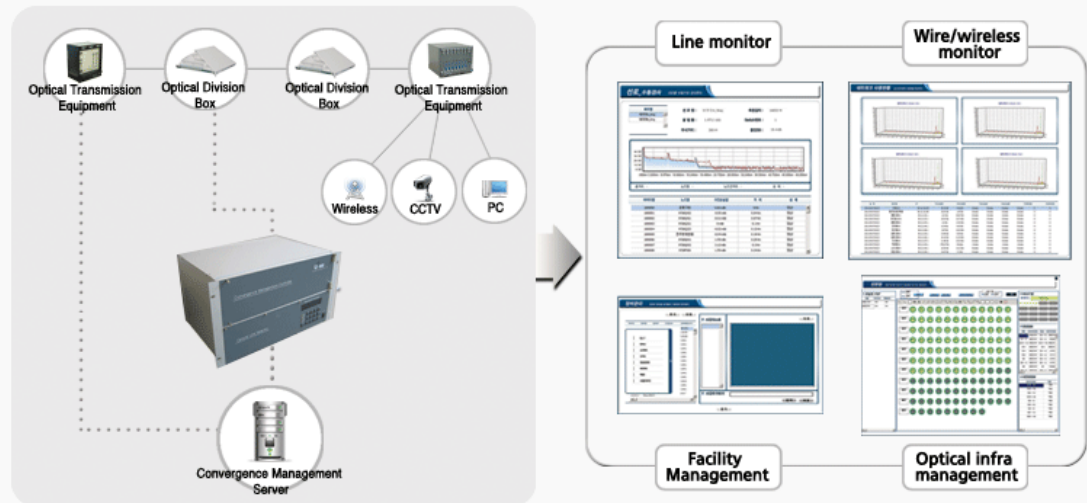
CWDM-PON OLT ExT-CT6400E/CT12800



CWDM transmission equipment

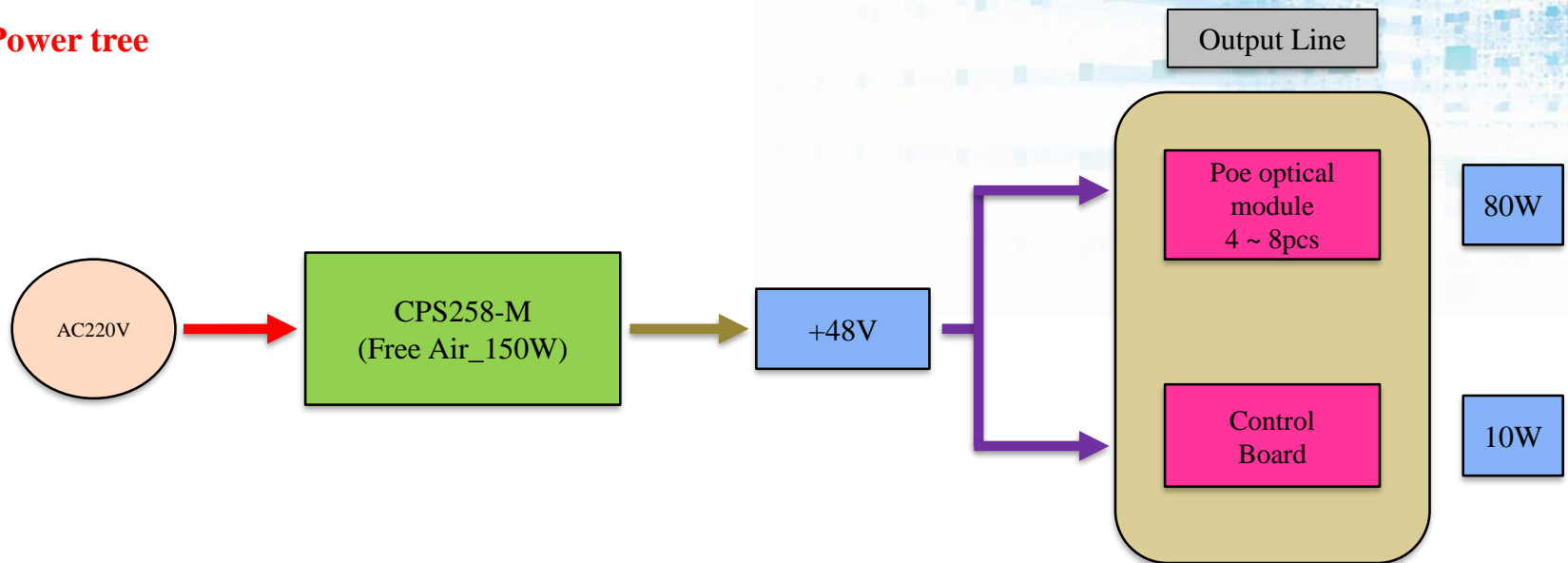
ExT-CT6400E/CT12800 using Coarse Wavelength Division Multiplexing technology, the ITU-T G695 Standard, which has greater savings and higher utilization rates of optical more than the conventional optical transmission equipment

U-CMS(Ubiquitous-Convergence Management System) Excellent Solution for convergence Management of SMART City Infra



Ethernet Switch

* Power tree



R800PE+

Hardware Feature



R800PE+

구분	R800PE+
Dimension(W*H*D)	220mm x 48mm x 190mm
Weight	≤2kg
Interface	2port WDM By-pass 1000Base-X Ether 2port 2.5Gbps(Optional), 2 X 1000Base - X 8port 10/100/1000Base-T PoE, 6port sensor port
Management port	1 x RS232 console
Switching capacity	30Gbps
Recovery time	10ms
Power	AC: 176 ~ 264V, 1A(MAX 155W)
Operating temperature	-40℃ ~ 70℃
Operating humidity	5% ~ 95%

Ethernet Switch

- Replaced competitor PSU.
- No issue during development and certification.

Competitor Size : 150 * 80 * 41 / CPS258-M Size : 102 * 51 * 33



ODP NOF150-48



CPS258-M



ATE RF Tester Controller

ATE RF Tester Controller

Real needs vs [actual]:

- PSU height: ~ 1.8" [✓]
- Input: 90-264Vac [✓]
- Pout: 12V@150W [✓]
- No power derating until 50C [✓]
- Isolation 1500Vac [✓]
- CISPR22 & FCC15 Level B EMC compliant [✓]
- Low cost and good tech support [✓]



AC-DC

CPS253-M

Distributed DC for:-

- DSP main controller board
- Display panel
- USB, Ethernet
- Logic switch; MUX and etc



HVAC/HVDC Power System

HVAC/HVDC Power System

Solution Structure

Project name - HVAC/HVDC Power System

Application summary:

- Customer need power system which can support 220VAC and 336VDC inputs. Total power is 8kW-24KW.

Real needs:

- Need PSU must support 220VAC and 336VDC input. The PSU minimum output 2kW.

Solution summary:

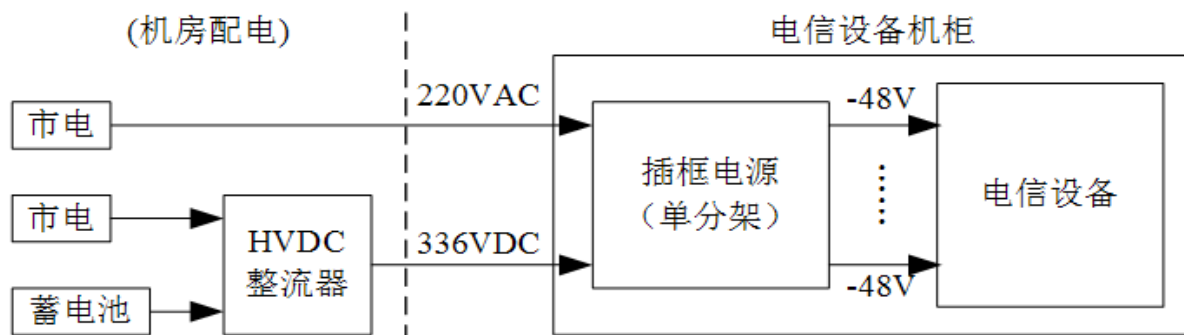
- We have a custom HVAC/HVDC 3.5kW PSU. Customer can choose this module and build the power system of 8KW-24KW.



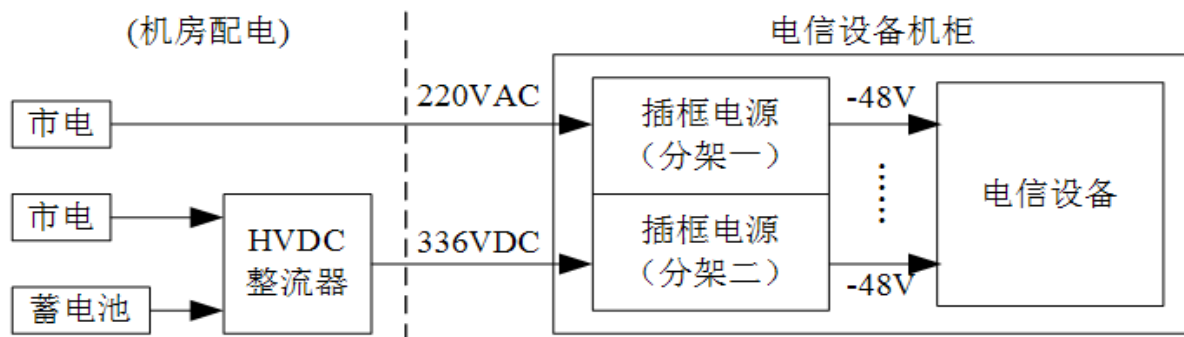
HVAC/HVDC Power System

The background of application

插框电源应用场景如图 1-1所示。



(A) 单分架接高压直流、交流混合输入



(B) 多分架分别接高压直流和交流输入

图 1-1 插框电源应用场景示意图

HVAC/HVDC Power System

The requirement of configuration

Configuration	Main Feature	Artesyn Solution	Benefit
Maximum Configuration	whole system can output 48V/48KW,the PSU of HVAC input can output 24KW, the PSU of HVDC input can output 24KW.	only 8 units	can save 8 units PSU
Minimum Configuration	whole system can output 48V/8KW,the PSU of HVAC input can output 4KW, the PSU of HVDC input can output 4KW.	only 2 units	can save 2 units PSU

Artesyn PSU can support 220VAC and 336VDC HVDC input, so the power system need only one type PSU.

HVAC/HVDC Power System

3500W HVAC/HVDC PSU

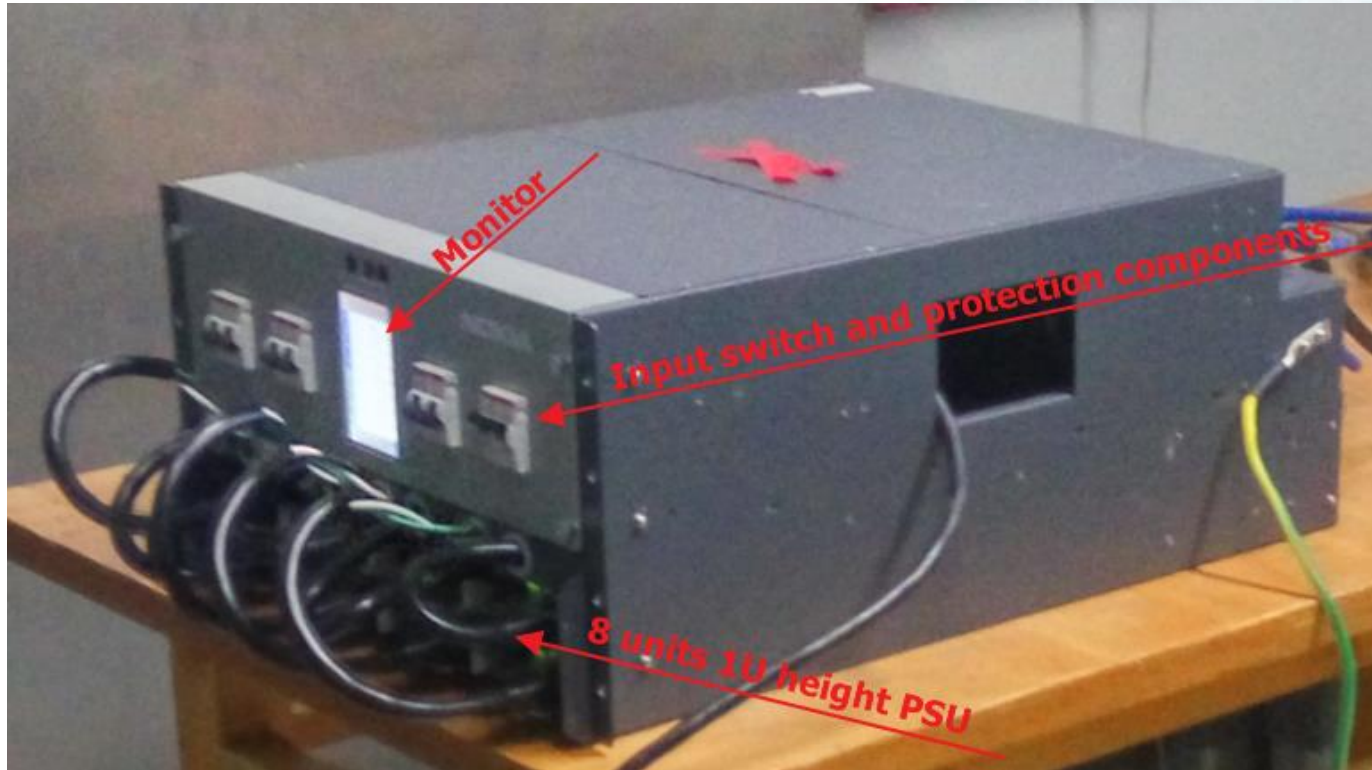
Description: HVAC HVDC 3500W Titanium Power Supply

- P/N: 700-014221-xxxx
- Application: Telecom
- Power(W): 3551
- Power Density (W/in³): 23.96
- Cooling: Forced Air
- AC Input (Min - Max): 85 - 305V
- DC Input (Min - Max): 192 - 400V
- Output: 50V/70A, 3.4V/15A
- Efficiency (Full Load): 0.91
- Operating Temp (Min - Max): -5 - 55C
- Redundancy: N+N
- Dimensions (LxWxH) mm: 559L x 100W x 41H
- Processor: Microchip
- Interface: SMBus
- Efficiency (Peak): 0.96



HVAC/HVDC Power System

The photo of customer Power System





LED Burn-In System

LED Burn-In System



Solution Structure

Project name - LED burn-in system

Application summary:

- 380Vac 3 phase
- 16 or 32 channels
- 9A max each channel .
- 20V~250V output.

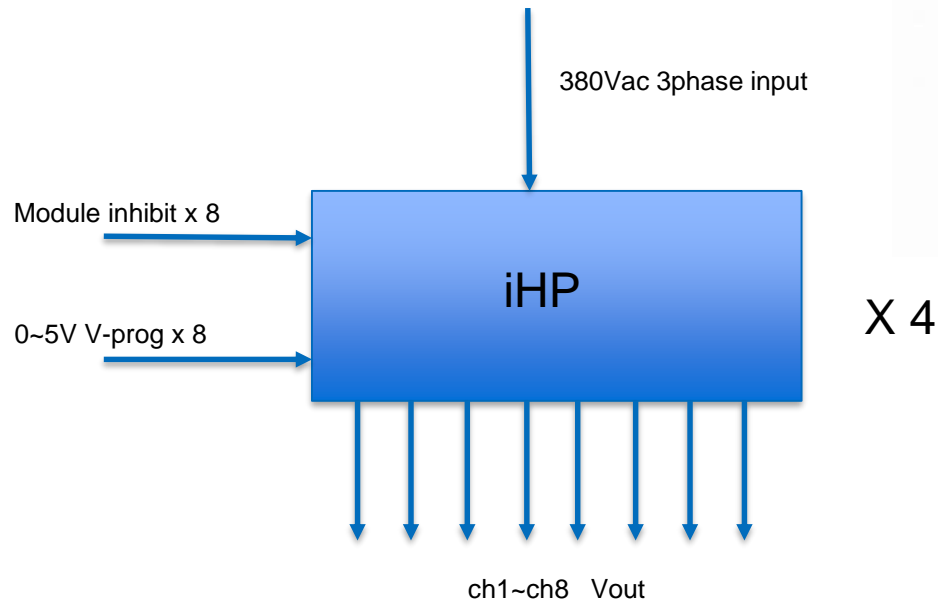
-Real needs:

- Wide range output voltage control.
- Stable output voltage.
- High power density PSU.

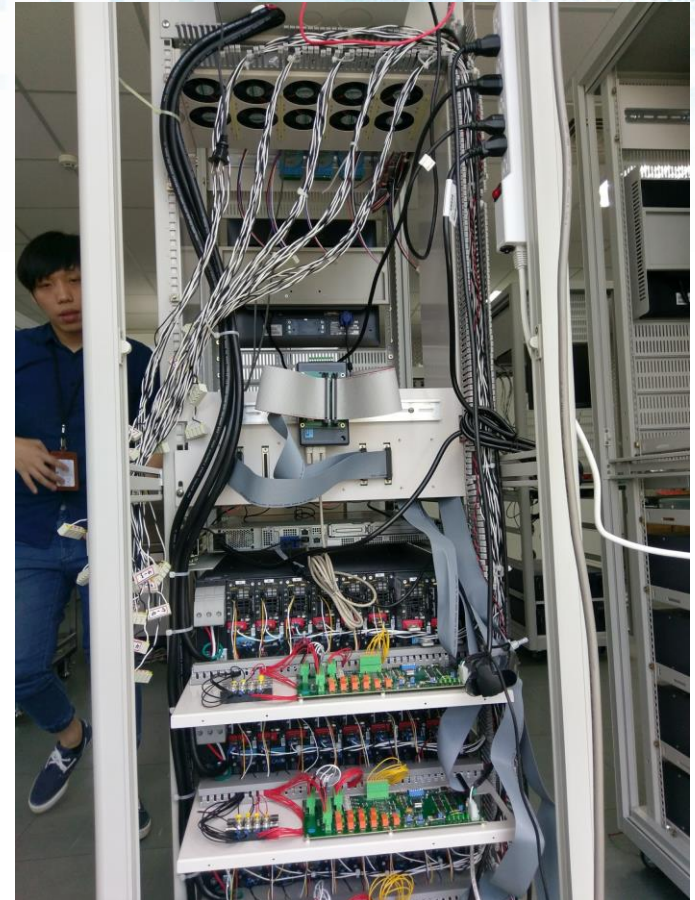
Solution summary:

- iHP24H-S2-S2-S2-S2-S2-S2-S2-S2-00

LED Burn-In System



Module inhibit insert before module start-up .





Radio Communication System for Vessel

Radio Communication System for Vessel



Solution Structure

Project name - Cobra_M II

Application summary:

- Application: Gen II satcom radio comm system for vessel

Real needs:

- Fanless
- Input: 90-264Vac
- Pout: 48V@<750W
- High power efficiency
- No power derating until 60C min
- High reliability and cost efficient solutions and good tech support

Solution summary:

Proposed Artesyn: LCC600-48U-9P

Competitor: XP Power, Belpower MBC series

Radio Communication System for Vessel

Real needs vs [actual]:

- Convection-cooled [✓]
- Input: 90-264Vac [✓]
- Pout: 48V@upto 1200W [✓]
- No power derating until 85C [✓]
- Efficiency >85% [✓]
- Solid & robust body structure and good tech support [✓]



AC-DC

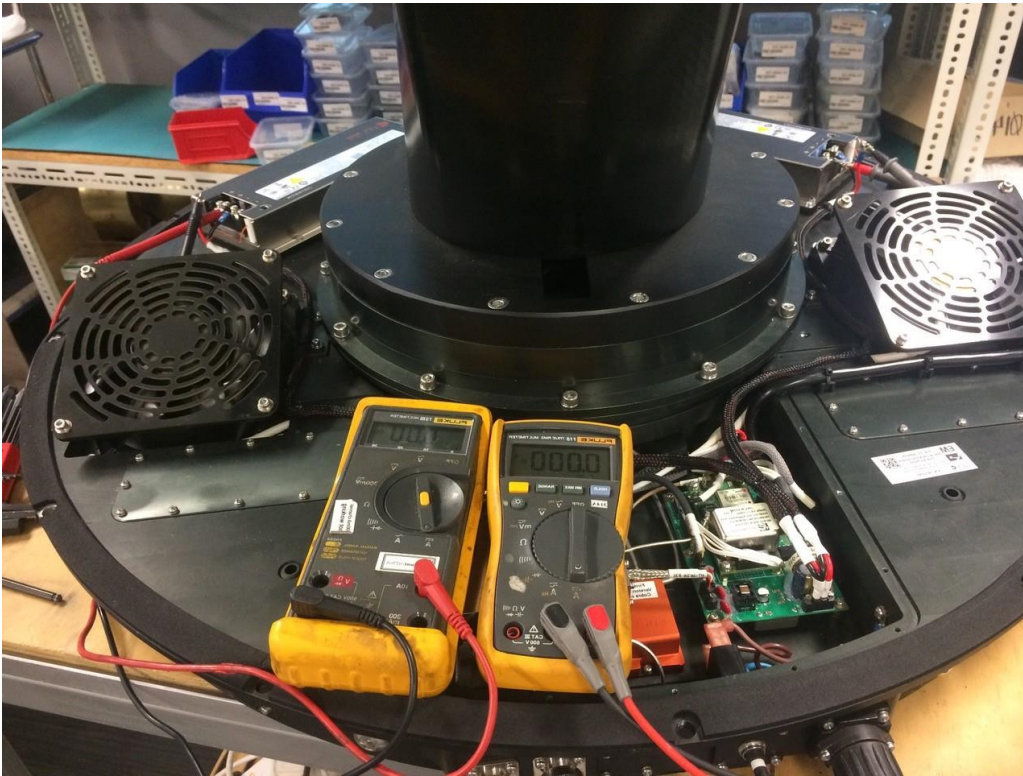
LCC600-48U-9P x2

Distributed DC for:-

- Motor
- PA module
- RF transceiver system processing board
- Fan; logic control and etc

Radio Communication System for Vessel

- Customer system with LCC600:-





Mobile Network System Controller Board

Mobile Network System Controller Board

Solution Structure

Project name - ENODEB-4G

Application summary:

- DC/DC power portion for mobile network system controller board

Real needs:

- Vin: 36-65Vdc
- Vout: 28V@600-650W
- RoHS 6 compliant
- Miniature size with brick standard
- -40C to 85C
- High MTBF is preferred
- High efficiency
- Better costing and tech support

Solution summary:

DC/DC proposal: ADH700-48S28-6L

Competitor: Murata PAH-28/16 & Suplet



Mobile Network System Controller Board

- Customer's PSU requirement as follow:-
- Vin: 36-75Vdc >> Yes
- Vout: 28V@600-650W >> Yes
- RoHS 6 compliant >> Yes
- Miniature size with brick standard >> Half brick
- -40C to 85C >> Yes
- High MTBF is preferred >> 2M hours
- Better power margin & high efficiency >> 700W@95%
- Better costing and tech support >> Yes



DC-DC

ADH700-48S28-6L

Distributed DC for:-

- RF switch module
- RF DEMOD module
- RF/IF module
- RF signal processing module
- etc



Medical Air Compressed Massage Packs

Medical Air Compressed Massage Packs



Solution Structure

Application summary: Hot and Cold Pack + Massage.

Real needs:

- 220Vac input. 12V @ 170W Forced Air cooling
- Medical safety
- Small size

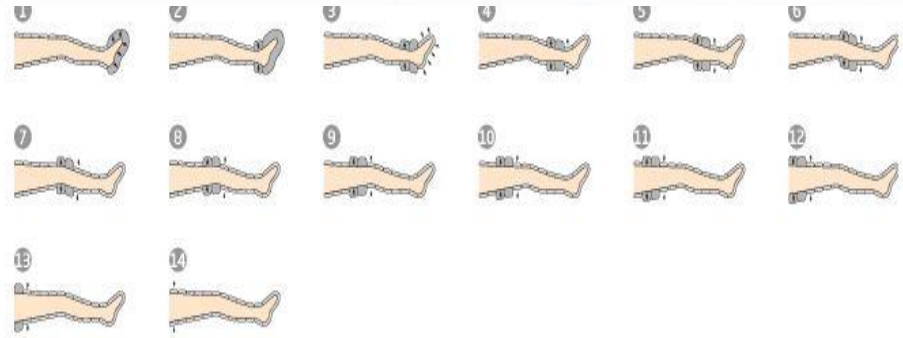
Solution summary:

- CPS253-M.

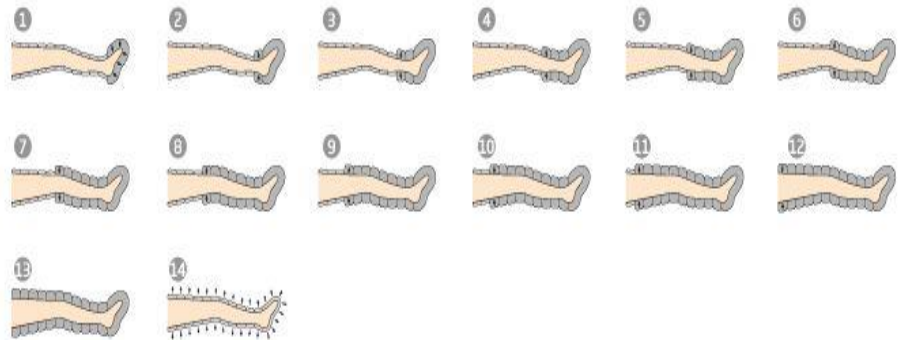
Medical Air Compressed Massage Packs

Customer specialized in air compressed massage technology for medical purpose.

DL-1200L 사지압박순환장치
더욱 넓고 정밀한 가압 - 12단계 고급형



• 8 모드



1. DL-1200L 란?

닥터라이프 DL-1200L 공압시스템 (사지압박순환장치)은 다양한 환자에 따라 적정값을 설정할 수 있는 고급형입니다. 또한 DL1200L 장비는 다리커프, 골커프, 허리커프와 함께 연결하여 사용할 수 있으며, 그 외에도 올바디 커프를 사용하여 전신 케어도 가능하여 정형외과 외에도 사용할 수 있도록 고안된 제품입니다.



Medical Air Compressed Massage Packs

New project : Massage + Ice pack.

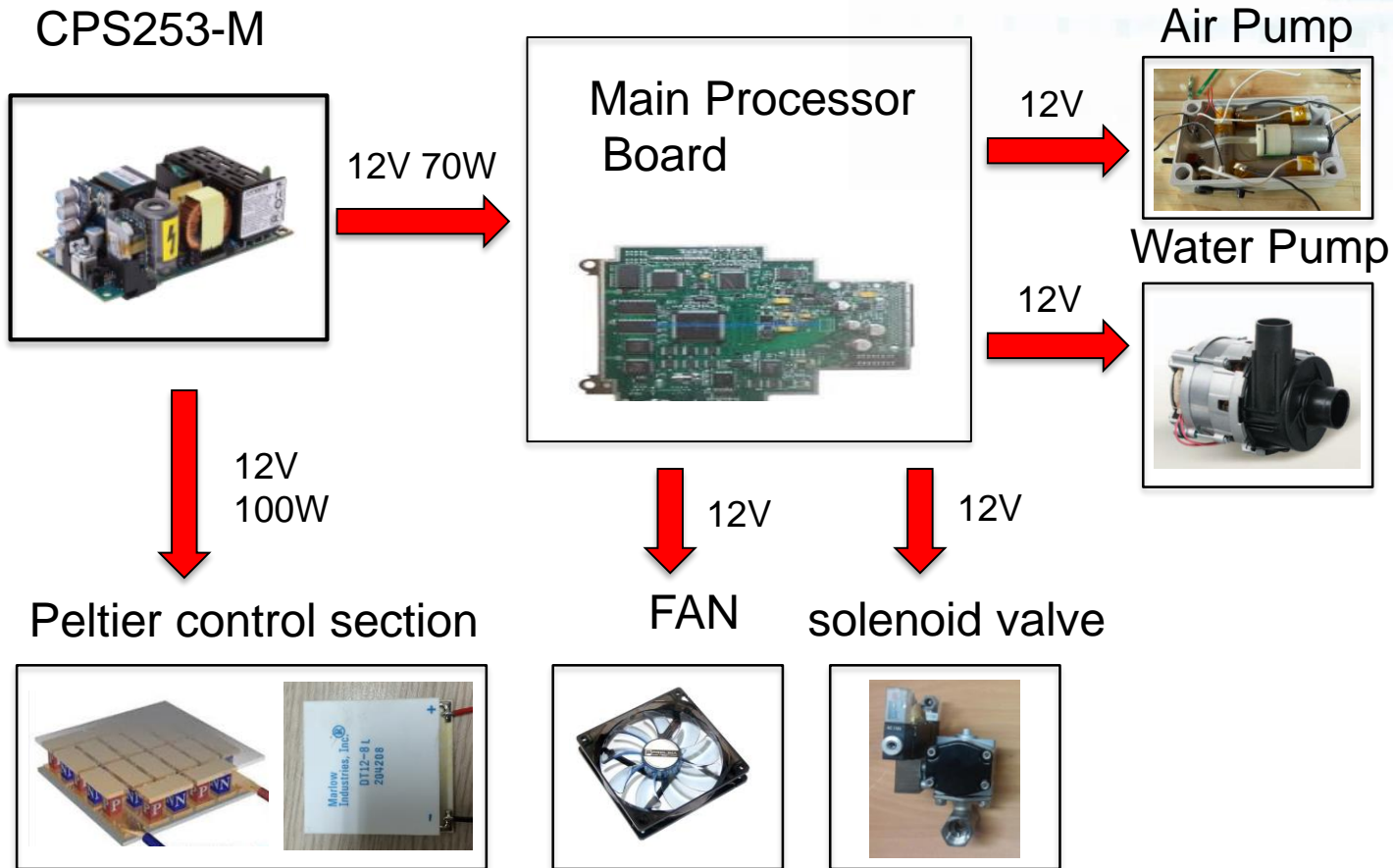
Massage : by compressed Air and cuffs

ICE pack : Cold water circulation by water pump and Peltier component.



Medical Air Compressed Massage Packs

New project : Small size.





Embedded Server Board Tester

Embedded Server Board Tester



Solution Structure

Project name - PSU for Embedded Server Board Tester

Application summary:

- Customized embedded board tester

Real needs:

- Vout: 48V@~1300W
- Reputable manufacturer
- High efficiency
- Cost efficient
- 5Vsb@2A
- Digitally controlled

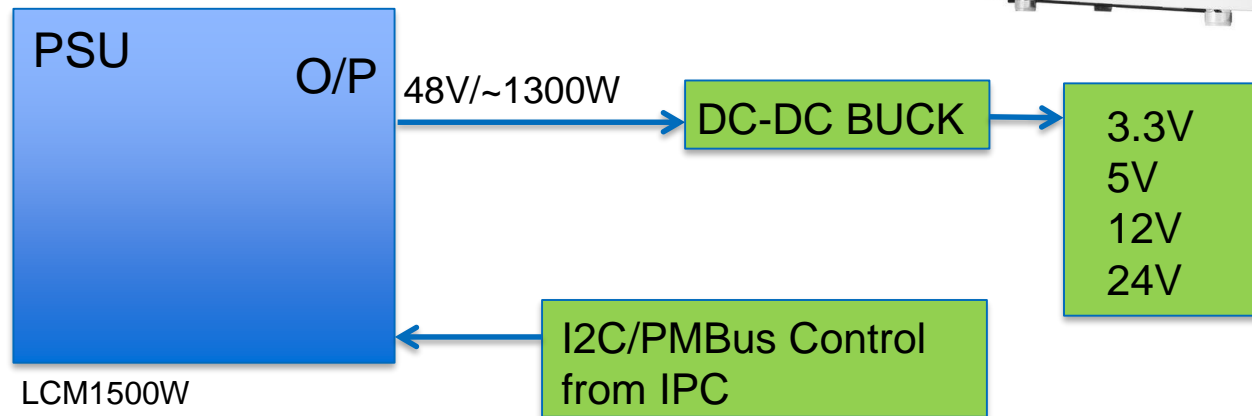
Solution summary:

PSU: LCM1500W-T

Competitor: Meanwell SE-1500-48

Embedded Server Board Tester

- Why LCM1500W:-
- Vout: 48V@ upto 1500W
- Efficiency >85% at full load
- Optional 5Vsb@2A
- Digitally controlled capability for automation test
- Low cost all-in-one psu
- Reputable brand in power supply market





Charging Terminal for Robot

Charging Terminal for Robot



Solution Structure

Project name - STRAR II

Application summary:

- Charging terminal for smart tray return automation robot

Real needs:

- Vout: 36V@400W
- Fanless
- Input: 90-264Vac
- High power efficiency
- Wide operating temp range
- High endurable & durable in rugged environment
- Digitally controlled
- High reliability and cost efficient solutions and good tech support

Solution summary:

Proposed LCC600-36U-9P

Competitor: XP Power

Charging Terminal for Robot

Customer End-Application

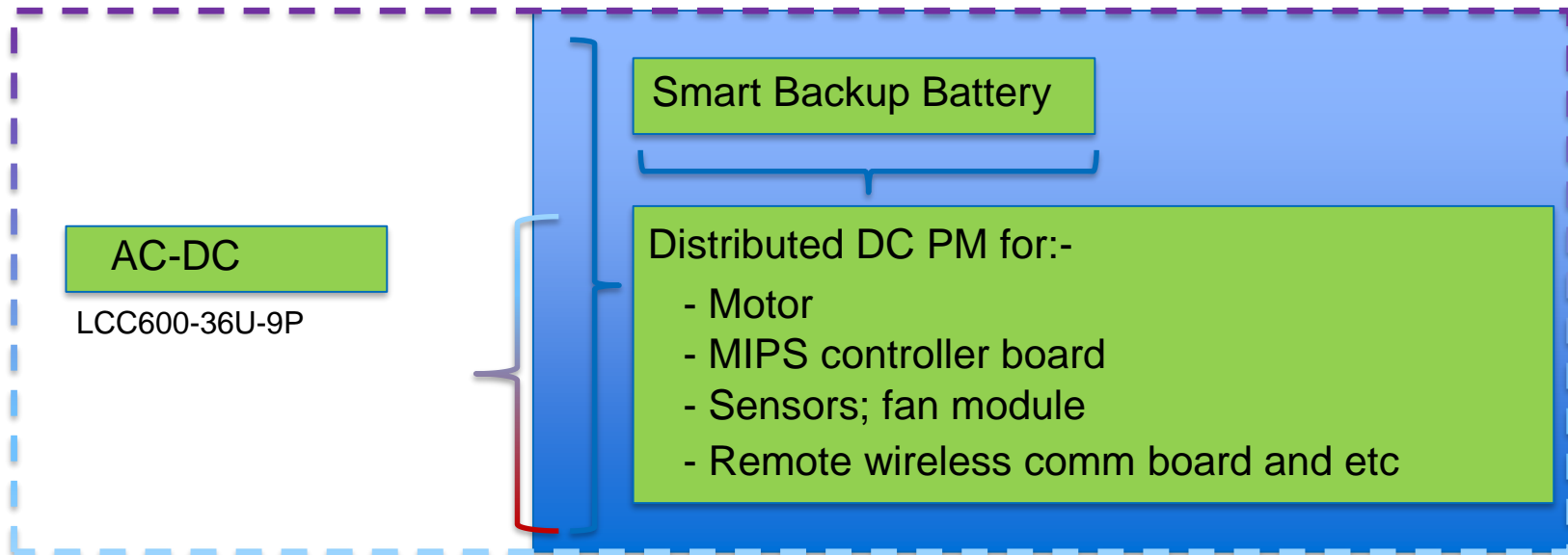


Charging Terminal for Robot

Why LCC600?

Real needs vs [actual]:

- Convection-cooled [✓]
- Input: 90-264Vac [✓]
- Pout: 36V@upto 600W [✓]
- No power derating until 85C [✓]
- Digitally controlled [✓]
- Efficiency >85% [✓]
- PMBus/I2C control capable [✓]
- Compact size dimension [✓]
- Solid & robust body structure for rugged environment [✓]
- Good tech support [✓]





Steam Sterilizer

Steam Sterilizer



Solution Structure

Application summary: Steam sterilizer

Real needs:

- 5V 2A small output open frame PSU..
- Low cost, good lead time.

Solution summary:

- Solution : NPS22-M

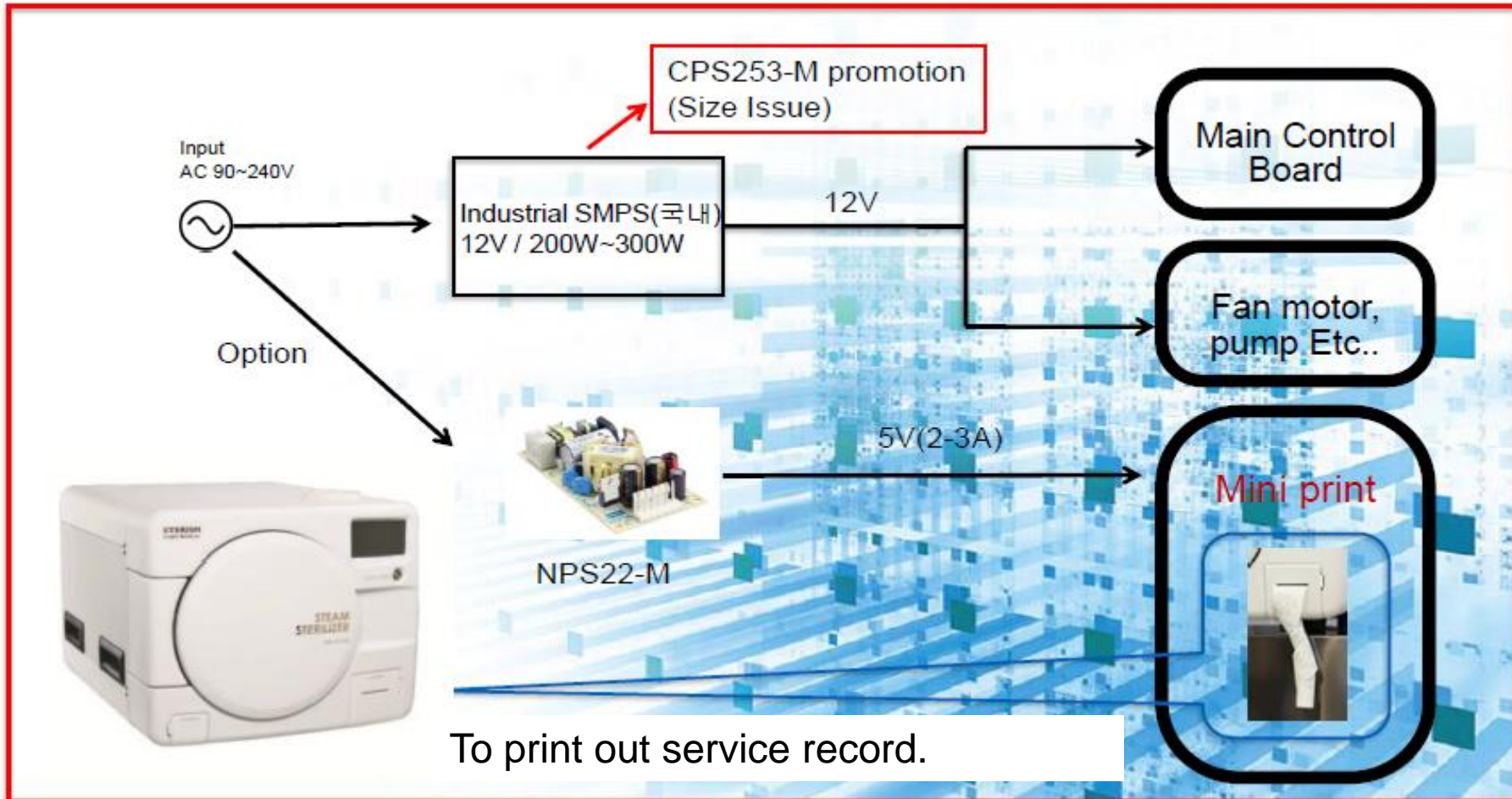
Steam Sterilizer

- Customer specialized in Sterilizer that is usually used in the hospital or bio lab.
- There are several type Sterilizers using high pressure steam, high temp Air, UV light, etc.



Steam Sterilizer

- Design in NPS22-M for optional mini printer in the steam sterilizer.
- Promotion CPS253-M to replace main PSU.





END of File...