

## DC BANK (DCB)

Model: **DCB-D600-40**

### Introduction

Due to the demand of uninterruptible power supply for 24 hours in controlling the accurate motor speed in hi-tech industry, Great Forward, experienced in manufacturing heavy power equipment for years, has designed a “DC heavy duty uninterruptible power supply system” for the demand. Based on the concept of reliability and economy, we found a solution for the defects of the conventional industrial UPS and its high cost.

For instance, in semiconductor factory, the interrupt of fan-cooling system caused by the outage of commercial power may lead to a great loss of materials and cost of man power.

DCB-D600-50-480 for 30KVA power system requires a very short interval for installation and taking control over the original AC inverter. Just connecting battery strings, the system is ready for operation. When in stand-by mode, it does not generate heat except battery charging. Operation in low frequency dose not emit interference to the AC inverter. GF's Dc Bank is user-friendly and making the daily maintenance easier and cost-effective.

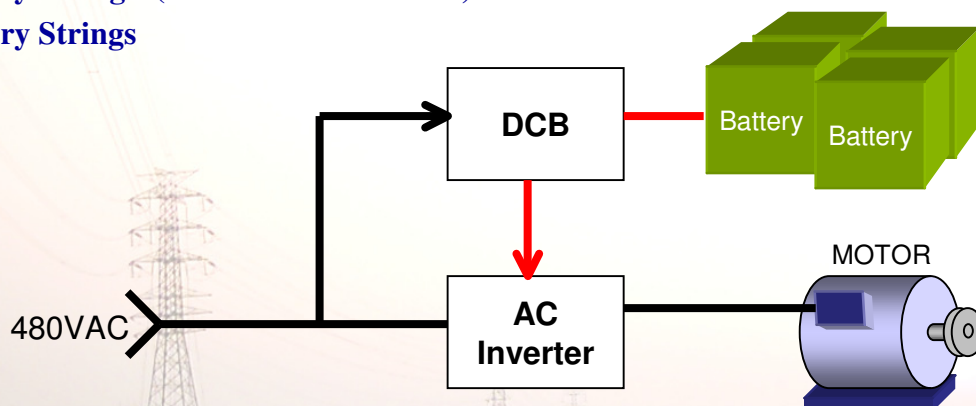


### Features

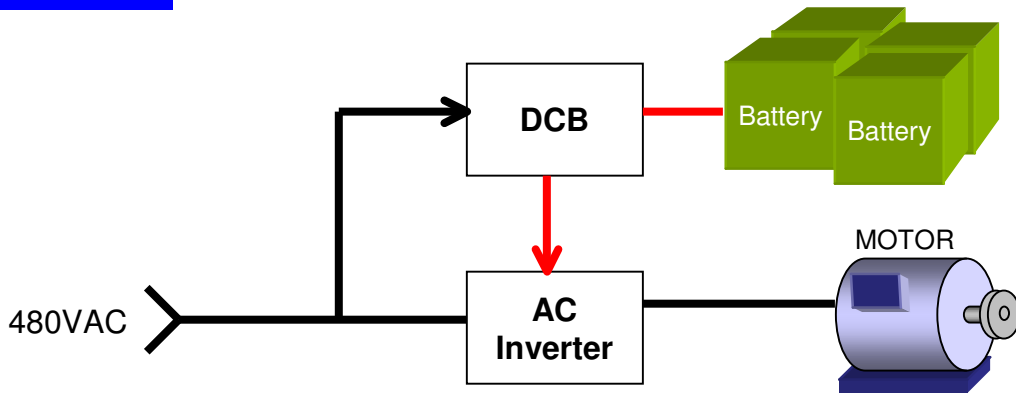
- **Complied with SEMI F47-0200.**
- **Cost saving, comparing with UPS, Flywheel, etc.**
- **Low cost & easy installation and cabling.**
- **Easy operation & functional tests.**
- **Totally solid state circuits, no maintenance for controller required.**
- **No dynamic mechanism.**
- **High efficiency.**
- **Easy monitoring, with I/P & O/P voltage/current meters.**
- **Status & alarm indicators & output alarm dry contacts**
- **Top grade digitalized charger with float/equalize charge and current limit protection.**
- **No time-lagging compensation, instant heavy power output.**
- **Low frequency operation, no emission of interference.**
- **Application and scalable capacity according to customers' need.**

### Main components of DCB-D600-40

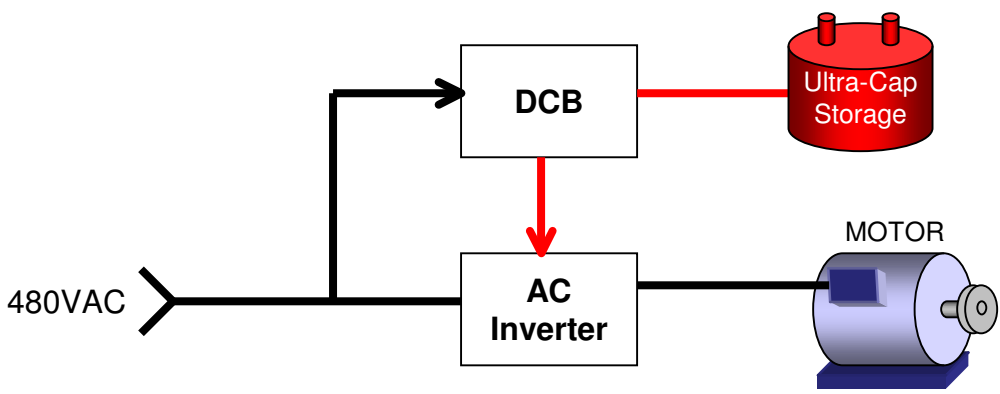
1. **DC-DC Regulator (DDR-600-50)**
2. **Battery Charger(BC-D580-020-T480-L)**
3. **Battery Strings**



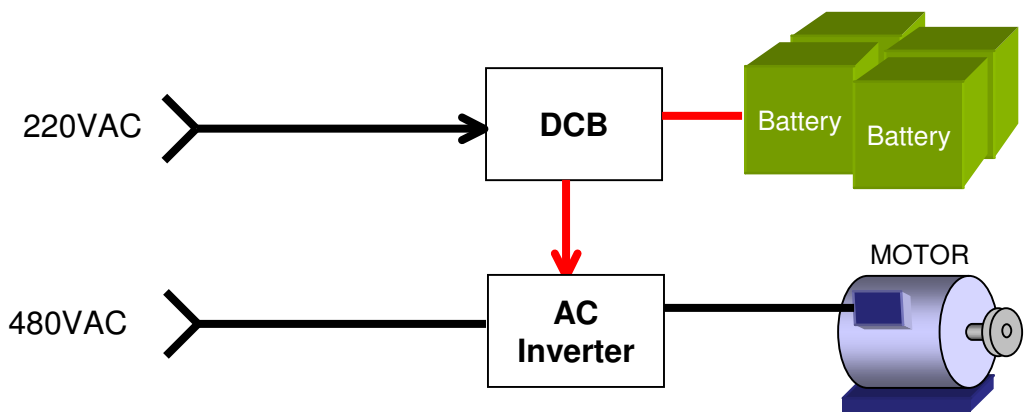
**System application**



Instant back up 3~5 Min.



Instant back up 3~5 Sec.



Different input power sources

*Specification are subject to change without notice. Customized design is available .*

## Specification

<b>Electrical</b>	<b>DC-DC Regulator DDR-600-50</b>	<b>Battery Charger BC-D580-020-T480-L</b>
Input voltage: Output voltage: Output Current:	450 ~ 590VDC±10% 600VDC (adjustable) 50A	480 VAC 590VDC (adjustable) 20A
Meas. Display:	Pointer type O/P Volt/Amp meter	LCD 16x2 lines (Background light)
Status Indication:	1. Start 2. Boost Ready 3. Boost Active 4. Test	1. AC Normal 2. Manual Charge 3. Float Charge 4. Equalize Charge
Alarm Indication:	1. Input DC Lo voltage 2. Fuse Blown 3. Over temperature 4. Boost Failure	1. AC Fault 2. Charge Fault 3. DC High Voltage 4. DC Low Voltage 5. Earth Fault Plus 6. Earth Fault Minus
Alarm contact:	1 set	1 set
<b>Mechanical</b>	Natural convection Appr. 3650 kg (Incl. Charger & batteries)	
Cooling: Weight: Back up time:	5 Min. (Based on need)	
<b>Environmental</b>	0 ~ 50°C Continuously running, 0 ~ 90% R.H. (Non-condensing)	
Temperature: Humidity:		

## Outline drawing

