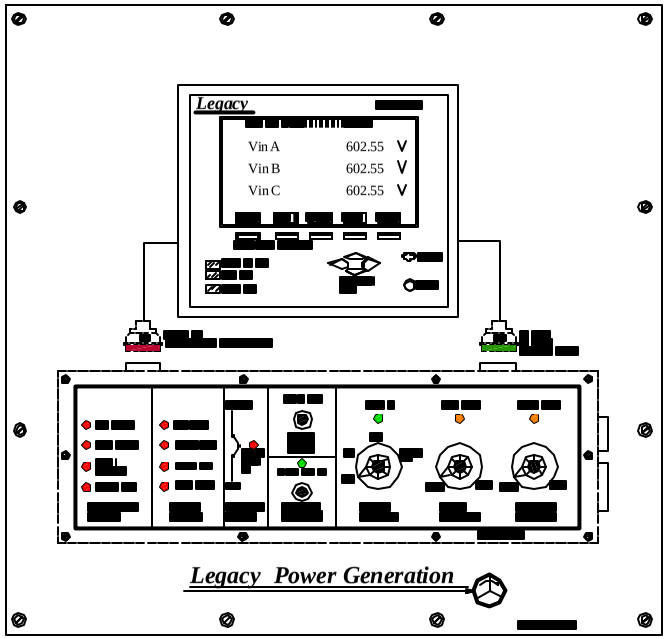
Legacy PnP-5000 Load Sharing Generating Control & Bus Controller

Patent Pending

OPERATIONAL NOTES :

1 - Engine Faults result in Breaker Trip and Engine Shutdown.
2 - Generator Faults result in Breaker Trip only.
3 - All Faults are Latched until reset by depressing the Fault Reset pushbutton.
4 - Load is ramped after breaker closure online.
5 - Controller unloads both Engine and Generator before opening breaker.
6 - For DP split bus arrangement use hermetically sealed gold contact relay for KW/KVAR signals.
7 - Each controller has it's own Sync Check/Breaker control logic for redundancy.
8 - Engine Tach is only used for starting. After Voltage buildup, frequency is used for primary speed control.
9 - Dead Bus starting requires external ungrounded 24 VDC supply (+/- 12V) for KW controllers. After Voltage buildup, the controller is self supplied and external source is automatically disconnected.
10 - Remote PLC control interface (optional) is via 0-+10 Speed and Voltage reference trims and isolated contacts for Start commands, Stop commands, and Autosync breaker closurecommand.

DOOR PANEL ASSEMBLY



MAIN BREAKER
UVR, REMOTE CLOSE,
2 SETS FORM C

INCOMING FROM GENERATOR

MAIN BUS

GENERATOR
3 PHASE, 50-60 HTZ

KEYED CONTROL PLUGS

KEYED DOOR PANEL PLUGS

CUBICLE BACKPAN CONTROL ASSEMBLY

POWER CPT MOUNTED TO BACKPAN

Plug n Play 5000 ASSEMBLY MODEL NUMBERS

E	Revise of Load sharing Interconnect	PR	PR	2/14/03
D	ADD Color Code to Plugs/Receptl	PR	PR	1/27/03
C	ADD FAN ASSEMBLY	PR	PR	10/14/02
B	REVISE XFMR SUPPLY	PR	PR	10/12/02
A	INITIAL RELEASE	PR	PR	7/23/02
REV	REASON	DWN	CHK	DATE

PROPRIETARY INFORMATION

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TOLERANCES
UNLESS OTHERWISE NOTED
.XX = ± .010
.XXX = ± .005
FRACTIONS ± 1/64
ANGLES ± 1/2°
REMOVE BURRS;
BREAK SHARP EDGES

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TITLE:
PnP (Plug and Play) Generator Control Interconnection Layout

ENGINEER FRENKBACH	DATE: 7-23-2002	SCALE: NONE	SHEET 1 OF 1
CHKD:	B-	PNP0011-A	REV. E
APPD:			